VCCI Council
https://www.vcci.jp/

VCCI Annual Report 2021

VCCI

VCCI Council

2021

April 2021 - March 2022

ANNUAL REPORT

English

VCCI Council

VCCI Council

The purpose of this corporate body is to promote, in cooperation with related industries, the voluntary control of radio disturbances emitted from multimedia equipment (MME) on the one hand, and improvement of robustness of MME against radio disturbances on the other hand, so that the interests of Japanese consumers are protected with respect to anxiety-free use of MME.

» Description

1. Formulate basic policies on voluntary control of electromagnetic disturbances emitted by multimedia equipment
2. Coordinate the interest of member organizations and liaise with the government and related agencies
3. Receive and file Conformity verification report with the voluntary control standards and issue reception acknowledgement in return
4. Carry out market surveillance (with sampling test commissioned to third party testing laboratories)
5. Regularly review the suitability of the Technical Requirements for necessary revisions by research and experiments and share the results with members
6. Hold measurement skills courses to prepare members' engineers for adequate conformity assessment
7. Study trends in overseas EMC regulations and seek opportunities for mutual recognition agreement
8. Examine credentials of measurement laboratories and facilities based on the measurement facilities registration system
9. Do PR activities for general consumers and reach out to potential companies and associations for encouraging them to join VCCI
10. Administer other programs for effective operations of the voluntary control

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» Greetings

VCCI Council
President:
KAWAKAMI Keiichi

Thank you for your continuing support for the activities of VCCI Council.

This is a report on our activities in FY 2021.

As part of our COVID-19 countermeasures, VCCI has introduced telecommuting. In light of the unavoidable inconveniences this may cause, we are striving to improve convenience for our members through the development of a digitally-enhanced business environment. If you have any suggestions for improvement, or any general comments, feel free to contact us. In FY 2022, we plan to resume as much as possible activities that were unavoidably canceled or postponed in FY 2020-2021, paying attention to the status of COVID-19.

It is assumed that the new lifestyles and work styles that have emerged as a result of the COVID-19 pandemic over the past two years will likely be the status quo for some time. This will be supported by communications that exchange data, and in the background, artificial intelligence (AI), robots, etc.

In October last year, at CEATEC 2021 ONLINE (the world's largest CPS/IoT exhibition), much attention was paid to the showcasing of solutions and products for addressing global environmental issues and smart cities, and the important role of wireless (radio) communication in this regard. As for next-generation high-speed (5G) communication, which is expected to be the infrastructure for achieving "Society 5.0", services started in April 2020 in Japan, applicable telecommunication terminals are increasing, and coverage is planned to be expanded. Ultra-low latency and multiple simultaneous connections are some of the features of 5G, which are the reasons why the efforts to create local 5G networks in factories and stadiums are being eagerly accelerated.

Wireless communication is a key element in making "Society 5.0" become a reality, along with the imperative of maintaining an electromagnetically clean environment. The roles and responsibilities of VCCI will also become increasingly important in the future.

Since its inauguration in 1985, VCCI (formerly the Voluntary Control Council for Information Technology Equipment) has been engaged in activities to prevent failures in IT devices caused by interference, and protect the profits of Japanese consumers using electrical and electronic devices.

VCCI's activities are driven by the trust inspired by the VCCI mark. Specifically, our operation is underpinned by our three "pillars" of regulation: our system for registering measurement facilities, our system of self-declaration by member-filed registration of product conformity, and our fair market sampling tests. I am convinced that the VCCI mark could only earn its trust thanks to all of our members' earnest support and excellent compliance with our regulations. Going forward, we will continue to help build clean electromagnetic environments through these activities.

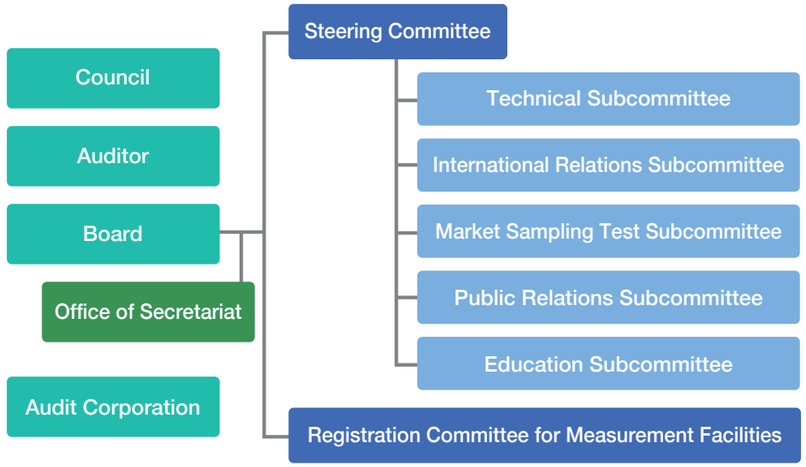
CISPR 32 Edition 2 (March 2015) is an international standard that addresses multimedia device electromagnetic emission. In December 2015, a recommendation was submitted to the Information and Communications Council of the Ministry of Internal Affairs and Communications, where it was decided that the standard would be applied in Japan. The multimedia EMC standard integrates the separate standards for information technology equipment and audio visual equipment. In November 2016, the VCCI Council issued and enforced a new Rules for Voluntary Control Measures conforming to this new international standard. Three full years have passed since we began operating solely under the new Rules for Voluntary Control Measures in April 2019, after a period of parallel operation with the old rules up to that point, and our members fully understand the current rules and are operating them smoothly. In recent years, the number of new submissions for Registration of Product Conformity has continued to exceed 5,000 per year, and we have seen an increasing number of new members from countries where we previously had no members, with enrollment from 29 countries and regions.

Improving awareness of the VCCI mark worldwide and contributing to international standards for electromagnetic interference are an important part of VCCI's work in promoting voluntary control. In FY 2021, an international forum that has been held in the past by inviting speakers from overseas electromagnetic interference regulatory authorities was continued in the same manner as in the previous fiscal year, with video and documents being distributed on demand. Annually, we compile research results obtained through our membership activities into papers for presentation at relevant overseas conferences. We believe that these kinds of activities have improved awareness of VCCI, both overseas and in Japan. Domestically, VCCI has held an on-demand seminar as the Info-Communication Promotion Month event hosted by the Ministry of Internal Affairs and Communications. VCCI has also provided technical training to engineers working with electromagnetic interference and improved awareness of the VCCI mark through relevant online training courses, promotion of educational activities, and public relations activities at technology exhibitions.

With the cooperation of our members and of relevant government agencies and groups, we hope to continue addressing trends in technological innovation in CPS and IoT which will be integral to radio applications, and their social implementation, thereby helping to build clean electromagnetic environments as a foundation for a CPS and IoT society. We will make sure our activities prove meaningful to our members, and in turn to Japanese consumers.

We hope you will continue to support us going forward.

» Organization



Board of councilors

■ Chairman of Councilor

TOKUDA Masamitsu

Honorary Professor, Tokyo City University; Visiting Co-researcher, Graduate School of the University of Tokyo

■ Councilor

OHYA Akira

Formerly of the Japan Broadcasting Corporation

■ Councilor

KOGA Ryuji

Honorary Professor, Okayama University

■ Councilor

FUJIWARA Osamu

Honorary Professor, Nagoya Institute of Technology

■ Councilor

OHSAKI Hiroyuki

Researcher and Professor, Graduate School of Frontier Sciences, The University of Tokyo

■ Councilor

KANEKO Kazuo

Former President, The Association for Overseas Technical Cooperation and Sustainable Partnerships

■ Councilor

HASEYAMA Miki

Vice President, Hokkaido University; Dean and Professor, Faculty of Information Science and Technology

■ Councilor

FURUTANI Takeshi

Executive Director, Japan Electrical Safety & Environment Technology Laboratories

Directors and auditors

■ President

KAWAKAMI Keiichi

Japan Electronics and Information Technology Industries Association

■ Director

ISHII Yoshinori

Communications and Information Network Association of Japan

■ Auditor

SHIBATA Satoshi

Formerly of Panasonic Corporation, former Chairman of VCCI Steering Committee

■ Director

TANAKA Hirotoshi

Japan Business Machine and Information System Industries Association

■ Executive Director

ODA Akira

VCCI Council

■ Auditor

HASEGAWA Hiroaki

Formerly of DOCOMO Datacom, Inc.

Accounting Auditor

Miogi Audit Corporation

» VCCI Council Committees and Activities

Steering Committee

Oversees subcommittees' activities and endorses their resolutions, handles general managerial matters of VCCI, and makes proposals to the Board of Directors.

General operations

(1) Establishment of the new "Rules for Voluntary Control Measures" based on CISPR 32 Edition 2.0

The new "Rules for Voluntary Control Measures" based on CISPR 32 Edition 2.0 (which is most recent) were enacted and enforced in November 2016. Acceptance of registration of product conformity based on the old V-2 Rules for Voluntary Control Measures terminated at the end of March 2019. FY 2021 was the third year since the period allowing overlap between the new and old rules ended. Judging from the volume of registration of product conformity and other documents, we can assume that VCCI members have made a smooth transition to the new rules, which are now firmly established.

(2) Dissemination and awareness-raising activities on the new "Rules for Voluntary Control Measures" based on CISPR 32 Edition 2.0

In FY 2021, two guidance documents were enacted. "Guidance for Registration of Product Conformity" (VCCI 32-1-G:2021) was established in December 2021 with the assumption that it would be applicable to applications from April 2022. In addition, "Guidance for Emission Measurement Using FFT-Based Measuring Instruments" (VCCI 32-1-H:2022) became effective on February 1, 2022. The VCCI Seminar, which has been held in May every year in a conference room of VCCI as an Info-Communication Promotion Month event sponsored by the Ministry of Internal Affairs and Communications, was held on demand from June 8 to 15 on the Council's website (ID/PW was given to 112 applicants to view the video), as was the case last year. Based on the content of this seminar, we hosted VCCI Seminar 2021 on our website from July 26 to August 6 to introduce the activities of VCCI and offer latest news to our overseas members. 39 members (including 17 from Taiwan, 6 from the U.S., 4 from China, 3 from South Korea, and 3 from Germany) participated in the Seminar.

(3) MOU operation and talks with overseas institutions

Ongoing MOU operations have been conducted between Japan and the U.S. to mutually recognize data measured in laboratories in both countries. As of the end of March 2022, the numbers of laboratories registered using this system have reached 72 in the U.S., and 58 in Japan. This year again, to exchange information with the three U.S. laboratory accreditation bodies (A2LA, NVLAP, and ANAB), we invited them to VCCI Seminar 2021 mentioned above instead of the usual face-to-face meetings. In May and November 2021, we participated in the REDCA meeting (held online), where we collected reference information on trends in market sampling tests and on international standard setting.

(4) Enhancement of IT infrastructure security and compliance

As an enhancement to our website, VCCI began operating under a new file server in April 2021, including registration of product conformity and facility registration. During the same period, the file cabinets of VCCI's steering committee and subcommittees were updated and migrated to the new cloud service.

In addition, as in the previous year, we continued to streamline various types of equipment as a thorough measure to prevent the spread of COVID-19 in the office.

(5) Activities with academic associations (adoption and posting of two papers)

Both are held online. Each asterisk (*) denotes the head author (main author).

(a) 2021 JOINT IEEE EMC & EMC EUROPE, USA (August 2021)

・"Validity of mains Cable Termination by VHF-LISN for Radiated Emission Measurement Compared with the Conventional Test Condition," Technical Subcommittee: Osabe*, Kuwabara, and Muramatsu

(b) APEMC 2021 (September 2021)

・"Verification of Using 150-ohm Δ-AN specified in clause 4.7 of CISPR 16-1-2 for Measuring Conducted Emissions on AC Mains Power Ports," Technical Subcommittee: Miyake*, Yoshida, and Muramatsu

Technical Subcommittee

Sets and maintains the VCCI Technical Requirements covering standardized EMI limits, measurement methods, and conformity verification procedures which underpin the scheme of voluntary control of electromagnetic interference to preserve sustainable radio environments surrounding multimedia equipment.

Standards setting

(1) Activities for proposing international standardization

VCCI participated in EMC-related committees in Japan and overseas, promoting activities to reflect its opinions in the short-term and long-term challenges raised for next term's revisions to the CISPR 32 standard (FY 2024). VCCI also promoted activities to propose international standardization of power cable termination conditions at the CISPR, SC-A&I, and JAHG6 conferences.

First, we reviewed the 12 maintenance items of the CD document for CISPR 32 Ed. 3.0. We also submitted a 2nd CD to CISPR/SC-A&I/JAHG6 with the addition of power cable termination devices for publication of CISPR 16-1-4 Ed. 5.0, and responded to comments from various countries. We made seventeen proposals with contributing documents for international standardization. Deliberations then proceeded and a 3rd CD is scheduled to be issued in April 2022. In addition, we prepared a CD document using power cable termination devices for radiated disturbance measurements in CISPR 16-2-3 and submitted it to CISPR/SC-A&I/JAHG6.

We also participated in the standardization activities of national standards and contributed to the drafting and submission of national standards CISPR 16-2-3 Ed. 4.0 (radiated disturbance measurements), CISPR 16-2-1 Ed. 3.1 (conducted disturbance measurements) and CISPR 16-1-2 Ed. 2.1 (ancillary equipment - conducted disturbances).

(2) Hosting of the Technical Symposium

A technical symposium was held on demand from February 7 to 10, 2022, to share the achievements of the Technical Subcommittee with VCCI members. Theses released by international academic associations were also explained at the symposium. There were about 165 participants.

(3) Main activities of the Technical Subcommittee and each WG

(a) Discussion of a guidance document for rules

A guidance document for rules was discussed. This guidance document describes advantages and points to be noted when using FFT-based measuring instruments to measure conducted and radiated emissions. It was newly issued in February 2022.

(b) CISPR Project Working Group

The WG discussed revisions to the CISPR 32 standard for Edition 3.0 and a contributed document and work documents for CISPR SC-A/I JAHG6. Based on the result of the deliberations, VCCI Council submitted comments. In addition, experts who attended CISPR conferences reported to members on what was discussed, and shared relevant information.

(c) Radiated EMI WG

In CISPR 32 Ed. 2.1, the height scan and limits for receiving antennas in measurement of radiated emissions above 1 GHz were revised. In response to this revision, the WG reported to the members at the technical symposium on the trend of increased emissions in height scans in a FSOATS and FAR using multiple EUTs.

(d) Conducted EMI WG

Resistance-dividing AANs that were used until CISPR 32 Ed. 2.0 had a voltage/current conversion ratio that varied significantly depending on the common-mode impedance of the EUT, affecting measurement variation and uncertainty. To remedy this, a modified resistance-dividing AAN was added in CISPR 32 Ed. 2.1. The same issue existed with shunt-type transformer-coupled AANs, and the WG reported to the members at the technical symposium that the improved transformer-type AANs have an almost constant voltage/current conversion ratio even when the common-mode impedance of the EUT changes.

(e) Antenna calibration and Site validation WG

For different facilities such as OATS, 10-meter SAC, and 3-meter SAC, the WG verified the evaluation methods of measurement site validity for measurement facilities for radiated emission measurements below 30 MHz, which is under consideration for standardization in CISPR 32 Ed. 3.0. It also reported to the members at the technical symposium on points to be considered during evaluation of measurement site validity.

(f) VHF-LISN Working Group

The WG reported, to VCCI members at the technical symposium, on its activities in the Joint Ad Hoc Group (JAHG6) (consisting of CISPR SC-A and SC-I) for promoting VHF-LISN standardization, including addition of devices to CISPR 16-1-4 Ed.5.0 initiated by VCCI and proposal for measurement using power cable termination devices for radiated disturbance measurements to CISPR 16-2-3. The WG also reported on content of papers posted to international EMC symposiums in 2021.

NOTE ・AAN: Asymmetric Artificial Network
・CD: Committee Draft
・EUT: Equipment Under Test
・FAR: Fully Anechoic Room
・FSOATS: Free Space Open Area Test Site
・OATS: Open Area Test Site
・VHF-LISN: Very High Frequency – Line Impedance Stabilization Network
・J-AHG6: Joint ad hoc group 6

Technical symposium

International Relations Subcommittee

Through the promotion of cooperation and collaboration with related organizations around the world, the subcommittee contributes to the proper operation of the VCCI Council and provides highly accurate information to our members by investigating standards and operational rules in various countries and regions.

Overseas situational awareness activities

(1) International Forum

The VCCI International Forum 2022 was held on demand from March 14 to March 18, 2022. Guest speakers were invited from the EU Commission, BEIS (UK), ANSI63.4WG (U.S.), and CQC Intime Testing Technology Co., Ltd. (China) to give talks on the latest news in various countries. There were approximately 700 accesses.

(2) Update to the world ITE standards table

A survey on the status of emissions standards and immunity standards was held in 25 countries including Japan, the U.S., Europe, China, and Australia, and results were published on the website in July 2021.

(3) Provision of updates to members regarding trends in EMC regulations

Survey information on world EMC trends was entered into a database, for provision to members. Updates were made as needed, starting from April 2016. "Survey of Trends in World EMC Regulations" was updated in May, July, October, November, December 2021, January, and February 2022.

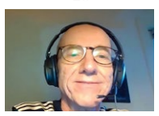
(4) Overseas surveys

For FY 2021, overseas surveys were canceled due to the COVID-19 pandemic.

NOTE ・BEIS: Department of Business, Energy & Industrial Strategy
・ANSI: American National Standards Institute
・CQC: China Quality Certification

EU

U.K.



U.S.A.

China

International Forum

Market Sampling Test Subcommittee

Checks if registration of product conformity filed to VCCI Council are conducted properly. Pass or fail is determined based on the results of measuring market samples in designated testing laboratories.

Market surveillance

(1) Market sampling tests

Market sampling tests were conducted in accordance with the Rules for Voluntary Control Measures. A total of 100 products were tested (of which 45 were loaned and 55 were purchased), and products included personal computers, peripheral terminals, digital cameras, and LAN-related devices. Of the 100 products, registration of product conformity were filed based on the VCCI 32-1 new rules for 93 products. In the first round of judgment of test results, 95 of 100 products passed, and five failed. Of the five failed products, one responsible VCCI member admitted to failing after detailed investigation into the product's conformity with the rules. One failed product subsequently passed after detailed investigation. The remaining three cases are being investigated in detail by the members.

The results are shown in the table below, with 96 passing and 1 failing cases for which judgments were completed as of the end of March 2022. The remaining three cases will be reported in FY 2022. Information on failed products such as company name, model name, and other details will be published in "VCCI Dayori" (FY 2022) with consent from the members in question.

Sampling tests found no serious failed. In the course of the tests, all VCCI members were very cooperative in complying with our requests such as submitting test reports. We believe our members are observing the rules diligently as always.

	Tests on loaned samples				Tests on purchased samples				
Quarter	Ⅰ	Ⅱ	Ⅲ	Ⅳ	Ⅰ	Ⅱ	Ⅲ	Ⅳ	Total
Passed	11	18	8	6	19	20	12	2	96
Failed	0	1	0	0	0	0	0	0	1
Total	11	19	8	6	19	20	12	2	97

(2) Document Inspection

From members, we obtained 40 test reports at the time of registration of product conformity. As a result of examination, 125 issues were identified. In six cases where the test conditions were insufficient, additional tests were conducted by the members based on the points raised. New test reports were re-examined and the items pointed out were confirmed to be within the standard. In regard to one product with inappropriate VCCI marks or warning statements on the products and thirteen products with inappropriate warning statements in instruction manuals, the relevant VCCI members were notified to take corrective measures, and the corrections were confirmed.

Test reports were also inspected for 99 products subjected to sampling tests (the relevant VCCI members agreed to let VCCI perform tests and had already filed test reports along with registration of product conformity). When the test reports were inspected, six documents were found with insufficient test conditions. Three of these cases relate to reports that newly became subject to testing in VCCI-CISPR 32. Sampling tests were conducted for 99 products, including those previously tested with insufficient test conditions. It was confirmed that all products satisfied the standards. In regard to three products with inappropriate VCCI marks on the products and fifteen products with inappropriate warning statements in instruction manuals, the relevant VCCI members were notified to take corrective actions, and the corrections were confirmed.

(3) Survey of use of the VCCI mark in the market

A fact-finding survey was conducted on the use of VCCI marks in the market (1,279 models from 97 members) by checking store shelves of mass retailers. 899 products (70.3%) were confirmed to have the VCCI mark, while 135 products (10.5%) could not be confirmed to have the mark in stores because the products were mockups or electronically displayed.

In regard to VCCI-member products with VCCI marks, we identified 35 products from 13 companies with VCCI marks which were not supposed to be on the products according to the filed information. Those that could not be matched with the submitted information were 10 companies that failed to file registration and 3 companies that could be confirmed that they had already filed registration.

(4) Improvement activities

As a result of the FY 2020 survey on the display of the VCCI mark, "Guidance for registration of product conformity - how to input the model number" was issued because there were cases where products in the market had the VCCI mark but it was difficult to match them with registered data. It was enforced on April 1, 2022. An introduction to this guidance was provided at the technical symposium held in January 2022.

Public Relations Subcommittee

Promotes awareness of VCCI Council and its activities, for example by working as creator and admin of the VCCI Council website, issuing the seasonal newsletter "VCCI Dayori" and annual reports in Japanese and English, creating and distributing PR brochures and calendars, and participating in exhibitions in Japan and abroad.

Public relations activities

(1) TECHNO-FRONTIER 2021 (real exhibition: Aomi Exhibition Halls during the period from June 23 to 25, 2021, online exhibition during the period from June 8 to July 16)

We held both real and online exhibitions for TECHNO-FRONTIER for the first time. At the real exhibition, our booth was basically unmanned for prevention of the spread of COVID-19. The booth showcased materials such as membership information and novelties, along with four display panels. Materials and videos were posted at the online exhibition in accordance with the exhibit format. During the exhibition, 206 people visited the online exhibition, including 40 who responded to a questionnaire.

VCCI Council's booth

(2) CEATEC 2021 ONLINE (from October 19 to 22, 2021, archive posted from October 22 to November 30)

This was the second time CEATEC was held online. Materials and videos on VCCI were posted in accordance with the exhibit format. During the exhibition, 683 people visited the online exhibition, including 46 who responded to a questionnaire.

(3) Illuminated billboard advertising

To raise awareness of the VCCI mark, we continued to post illuminated billboard advertisements in JR Akihabara Station and JR Osaka Station. In FY 2021, the advertising design of JR Osaka Station advertisement was changed.

New design for JR Osaka Station

(4) Advertising in the Tokyo Metro Hibiya line (train cars passing through Tobu Railway)

We continued to post door-window stickers in Tobu Railway's 70000-series train cars which also run on the Tokyo Metro Hibiya line.

(5) Video advertisements for TV sales at mass retailers

From March 2016, a 30-second video advertisement on the VCCI mark was continuously broadcast on TV sales floors in 20 Bic Camera stores across Japan, as PR for general users and mass retailer staff.

(6) Issuing of the newsletter "VCCI Dayori" and annual reports

VCCI Council issued "VCCI Dayori" (Japanese and English versions) No.140 to No.143, and published them on the VCCI Council website. The 2020 annual report (Japanese and English versions) was also issued in August 2021 and posted on the website.

(7) Creation of 2022 desktop calendars, and wall calendars for overseas members

We created desktop calendars for distribution at future exhibitions and for visitors. We also created wall calendars and sent them to overseas members.

Education Subcommittee

Educates and trains EMC managers and measurement engineers on VCCI rules and requirements while improving measurement techniques, by organizing technical courses and seminars.

Technical training seminars

Education and training seminars were held to disseminate VCCI operational rules and improve measurement techniques among member EMC managers and measurement engineers. In FY 2021, five seminars were prepared to be offered. Seven task forces were established for the opening of the seminars to discuss revisions to the textbook and infection prevention measures at training institutions.

The two classroom seminars planned for the first half of the year were held in an online format (live streaming). From the second half of the fiscal year, the online format (live streaming) was continued for three classroom seminars. However, a quasi-state of emergency was issued and travel restrictions at each member company became stricter. As a result, two seminars that provide hands-on training on an attending basis and two classroom seminars ("The level up of the EMI measurement technique" and "EMI measurement instrumentation uncertainty (MIU)") planned to be held in March 2022 were canceled due to insufficient participation.

(1) Holding of online education and training sessions (live streaming)

The education and training sessions were held in FY 2020 with a small number of participants because it was the first time the online method was used. However, in FY 2021, the sessions were held with typical numbers of participants. Before the session, we checked the status of Internet connection to resolve concerns of the attendees. During orientation at the beginning of the session, to build rapport between the lecturer and attendees (and create an atmosphere where the attendees could feel free to ask questions), both the lecturer and attendees introduced themselves with their faces on display and talked about their work and why they chose to participate in the session. At the end of the session, the lecturer answered additional questions and asked the attendees about impressions on the session in general.

All online sessions were lively with numerous questions raised in each session. According to the impressions expressed by attendees at the end of sessions and after-session questionnaires, there was no problem with sound, images, or communication. All attendees supported live streaming and we consider it to have been a success.

(2) Details of education and training courses held in FY 2021

(a) The basic technique of EMI measurement

This was a training course for beginner measurement engineers to acquire basic knowledge. Two sessions were held in May and September 2021, with certificates of attendance given to a total of 42 attendees.

(b) The basic of electromagnetic waves, EMI measurement technique below 1 GHz

Preparations for infection prevention measures at the training institution were completed and preparations were made to hold an attending basis session in February 2022. However, it was canceled due to the issuance of a quasi-state of emergency.

(c) EMI measurement technique above 1 GHz

Preparations for infection prevention measures at the training institution were completed and preparations were made to hold an attending basis session in February 2022. However, it was canceled due to the issuance of a quasi-state of emergency.

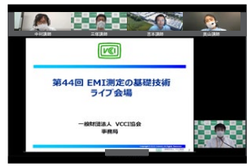
(d) The level up of the EMI measurement technique

The course was intended to deepen understanding of correct automatic and manual measurement of radiated emissions, and was planned to be held once in March 2022, but was canceled due to insufficient participation.

(e) EMI measurement instrumentation uncertainty (MIU)

The purpose of this course is to learn how to calculate the measurement instrumentation uncertainty (MIU), which is required to be included in the test report after conducting tests in accordance with VCCI-CISPR 32 "Technical Requirements", based on VCCI 32-1-3 (Measurement Instrumentation Uncertainty). The course was held once in June 2021, with certificates of attendance given to a total of 21 attendees. The course was also planned to be held once in March 2022, but was canceled due to insufficient participation.

NOTE ・MIU : Measurement Instrumentation Uncertainty



Live streaming screen

Secretariat office during live streaming

Registration Committee for Measurement Facilities

Inspects VCCI members such as measurement facilities against the VCCI requirements, and determines the validity of their membership based on the results. This ensures that conformity verification is fulfilled for EMI measurement sites and instruments.

Operations such as measurement facilities registered for inspection (measuring site registration operations)

The status of registrations in FY 2021 is shown in the following section. Registrations are effective for a period of three years, and those who wish to stay members renew their registration every three years.

(1) Number of actually registered facilities in FY 2021

・Number of facilities registered via inspections: 437 (of which 342 were those renewed)

Category of Measurement Facility	Number of Registered Facilities	(FY 2020)
Radiated emissions (below 1 GHz)	101	(136)
Mains port conducted emissions	108	(113)
Telecommunication (wired network) port conducted emissions	102	(100)
Radiated emissions (above 1GHz)	126	(99)

・Number of registered laboratories accredited by accreditation bodies: 99

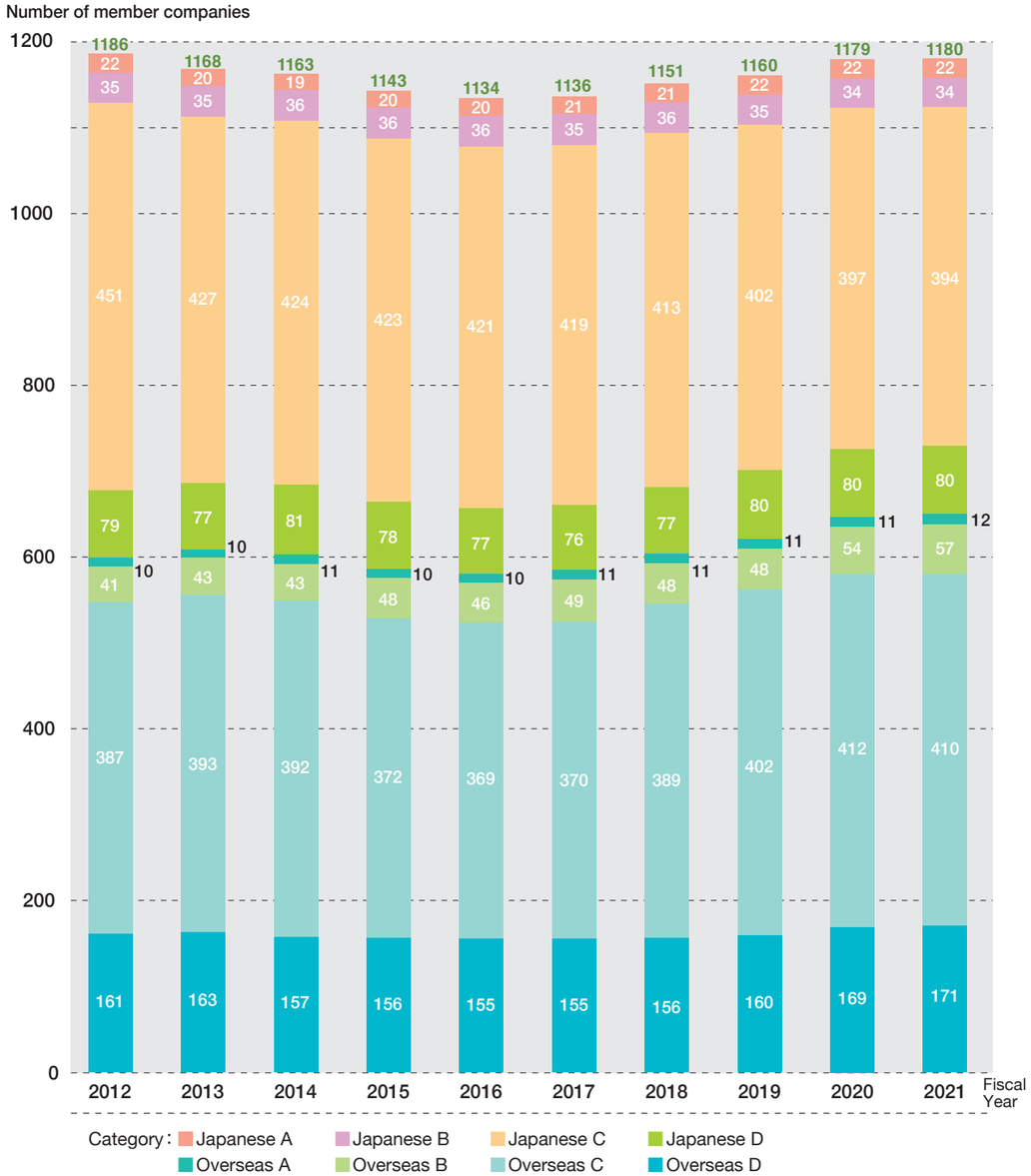
(2) Total number of registered facilities (as of March 31, 2022)

・Total number of facilities registered via inspections: 1,218

Category of Measurement Facility	Number of Registered Facilities	(FY 2020)
Radiated emissions (below 1 GHz)	337	(324)
Mains port conducted emissions	308	(305)
Telecommunication (wired network) port conducted emissions	269	(259)
Radiated emissions (above 1GHz)	304	(297)

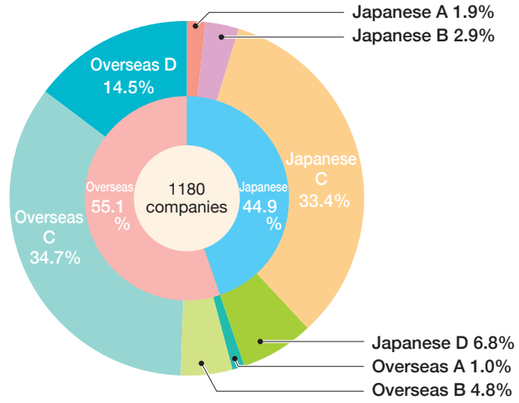
・Number of registered laboratories accredited by accreditation bodies: 130

» Trends in Membership



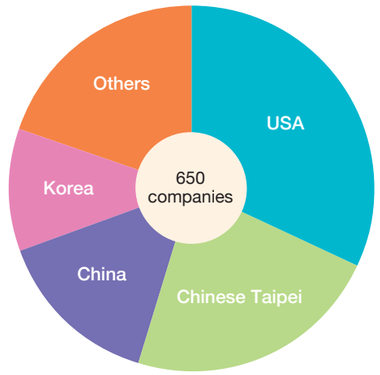
Category	Applicable to -
A members (regular members)	Chairmen and Vice Chairmen of the three groups constituting VCCI (JEITA, JBMIA, CIAJ) and equivalent companies (companies that file 70 or more conformity reports a year)
B members (regular members)	Companies that file 10 or more conformity reports a year
C members (regular members)	Companies that file fewer than 10 conformity reports a year
D members (supporting members)	Companies that do not file conformity reports, or do not ship products (mainly measurement facility companies or companies that only collect information)

» Composition of Members

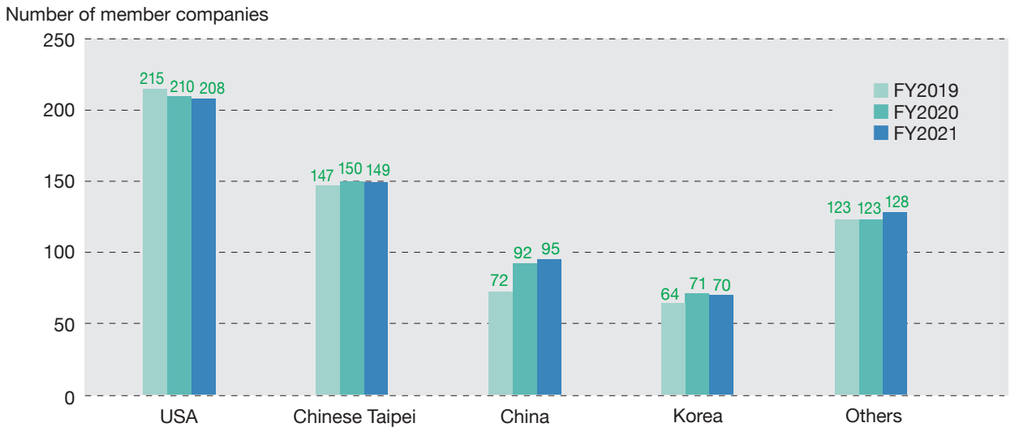


Member category	Number of Members	%
Japanese A	22	1.9%
Japanese B	34	2.9%
Japanese C	394	33.4%
Japanese D	80	6.8%
Overseas A	12	1.0%
Overseas B	57	4.8%
Overseas C	410	34.7%
Overseas D	171	14.5%
Total	1180	100%

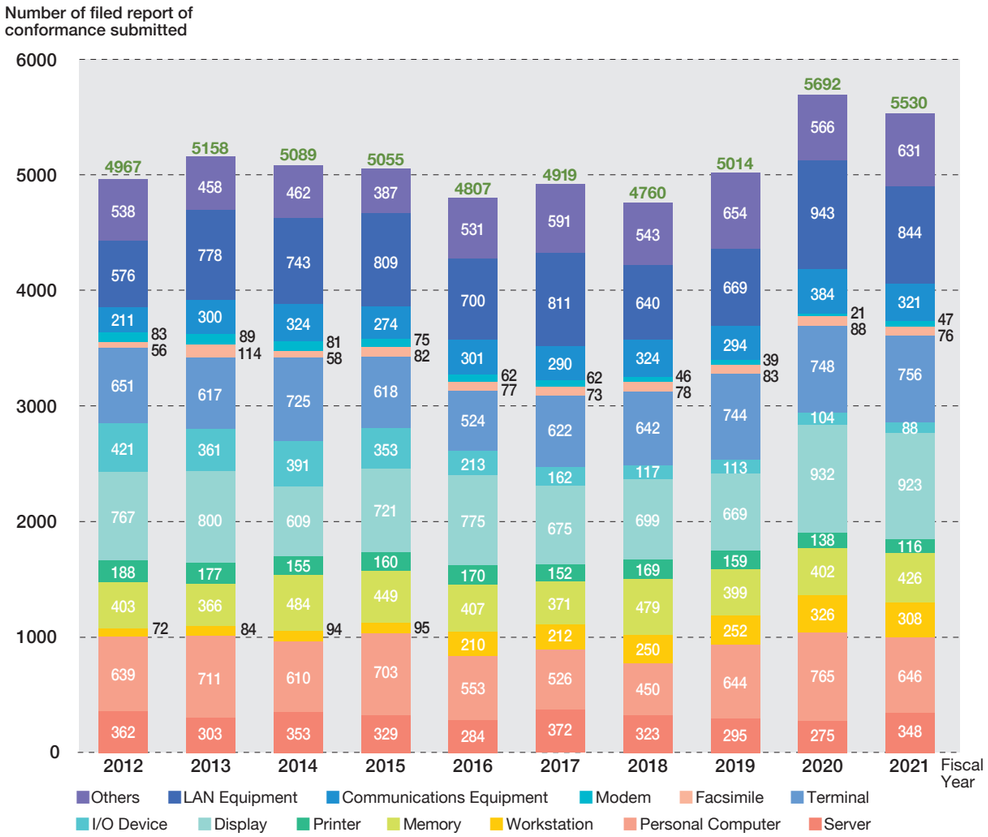
» Composition of Overseas Members



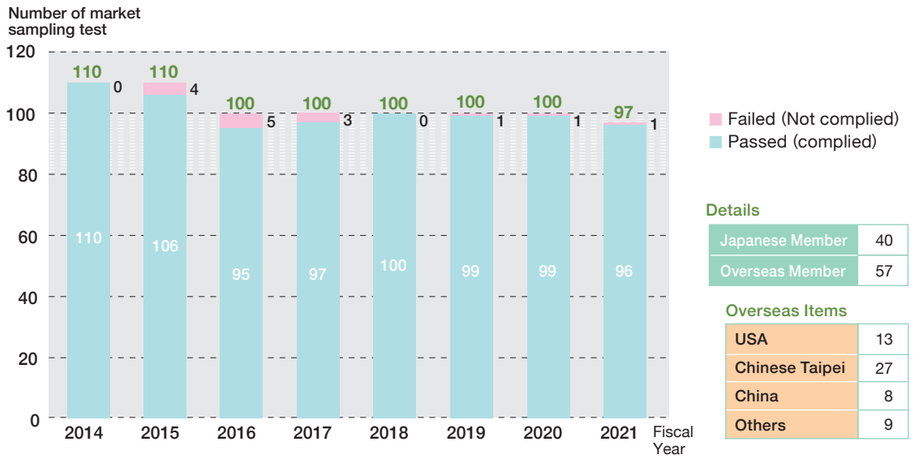
Country or Region Name	Number of Members
USA	208
Chinese Taipei	149
China	95
Korea	70
Others	128
Total	650



» Trends in Number of Filed Conformity Reports, by Product



» Trends in Market Sampling Test Results



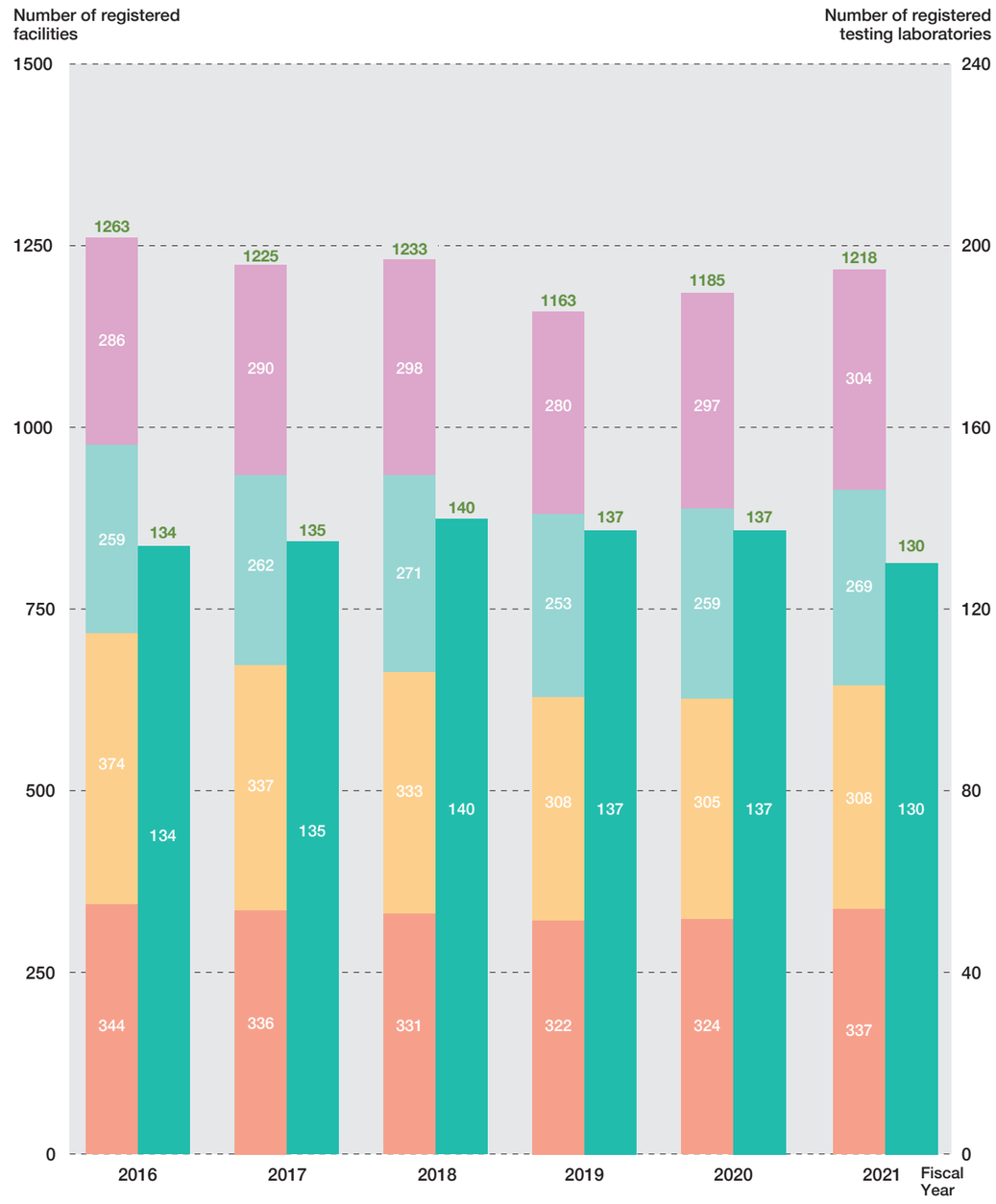
Details

Japanese Member	40
Overseas Member	57

Overseas Items

USA	13
Chinese Taipei	27
China	8
Others	9

» Trends in the Total Number of Registered Measurement Facilities and Laboratories as of the Fiscal Year End



» VCCI Council Member List

Regular Members

<Japanese>

No.	Company Name
	[A]
2323	A.T. Works, Inc.
2478	A2 Corporation
1355	ABIT CORPORATION
3873	Acco Brands Japan K.K.
1882	ADVA Optical Netwoking Corp.
35	ADVANTEST CORPORATION
3950	Aggregate., co. ltd
4169	AhnLab, Inc.
47	AIPHONE CO., LTD.
222	AISIN CORPORTION
2335	ALAXALA Networks Corporation
459	ALEXON CO., LTD.
1317	ALF INC.
231	Allied Telesis K.K.
3357	ALNETZ CO., LTD.
76	ALPS ALPINE CO., LTD.
43	ANRITSU CORPORATION
3682	AOPEN JAPAN INC.
147	APRESIA Systems, Ltd.
3047	Array Corporation
4051	Asuka Solution Company Limited
2655	Atmark Techno, Inc.
3532	AUI Co., Ltd.
1478	Avaya Japan Ltd.
1147	Axis Communications K.K.
	[B]
2321	Barracuda Networks Japan K.K.
3477	Benesse Corporation
736	BILLCON CORPORATION
2993	BIOS Corporation
2957	Bktel Pacific Rim (Japan) Inc.
2683	BMT Co., LTD.
913	Brains Corporation
21	Brother Industries, Ltd.
933	BUFFALO INC.
	[C]
3910	Canare Electric Co., Ltd.
441	CANON ELECTRONICS INC.
1386	CANON FINETECH NISCA INC.
49	Canon Inc.
883	Canon Marketing Japan Inc.
90	Canon Production Printing Systems Inc.
3129	Cansystem Co., Ltd.
54	CASIO COMPUTER CO., LTD.
3810	CASO Inc.
3678	Cellstar Industries Co., Ltd.
2395	Central Engineering Corporation
3555	CENTURY SYSTEMS Co., Ltd.
64	CHUO ELECTRONICS CO., LTD.
220	CITIZEN SYSTEMS JAPAN CO., LTD.
71	Comota Co., Ltd.
1206	CONTEC CO., LTD.
3232	CPI Technologies, Inc.
3881	Crafty Co., Ltd.
1231	CTCSP Corporation
	[D]
178	D&M Holdings Inc.
2803	Dai Nippon Printing Co., Ltd.
3800	DAIKIN INDUSTRIES, LTD.
2839	Data Controls Inc.
1978	Datacard Japan Ltd.
2496	DDS, Inc.
1758	DENSO WAVE INCORPORATED
3879	DGSHAPE Corporation
4167	DREAM MAKER CO., LTD.
419	Duplo Seiko Corporation
3848	DUX Inc.
3476	DX ANTENNA CO., LTD.
1026	Dyden Corporation
3741	Dynabook Inc.
	[E]
3378	e-Broad Communications Inc.
4181	Eaton Electric Japan KK
3922	Ecomott Inc.
137	EIZO Corporation
3254	ELECOM CO., LTD.
3052	ELSA Japan Inc.
3593	Empathy Co., Ltd.
1525	EPSON DIRECT CORPORATION
1091	EXCEL CO., LTD.
	[F]
2680	Fanatic Computers Inc.
4212	FG-Lab Inc.
3576	Fibergate Inc.
3769	FOVE Co., Ltd.
4119	FS JAPAN CO., LTD.
51	Fuji Electric Co., Ltd.
2331	Fuji Electric Co., Ltd.
67	FUJIFILM Business Innovation Corp.
118	FUJIFILM Corporation
670	FUJIFILM Imaging Systems Co., Ltd.
253	Fujikura Ltd.
704	Fujikura Solutions Ltd.
3320	FUJISOFT INCORPORATED
3835	FUJITSU CLIENT COMPUTING LIMITED
1066	FUJITSU COMPONENT LIMITED
3386	FUJITSU COMPUTER TECHNOLOGIES LIMITED
1500	FUJITSU FRONTECH LIMITED
20	FUJITSU ISOTEC LIMITED
1833	FUJITSU KANSAI-CHUBU NET-TECH LIMITED
65	Fujitsu Limited
1650	FUJITSU NETWORK SOLUTIONS
3696	FUJITSU SOCIAL LIFE SYSTEM LIMITED
34	FUNAI ELECTRONIC CO., LTD.
1561	FURUNO SYSTEMS Co., Ltd.
3355	FUTURE CONNECT, LTD.
1138	FXC Inc.
	[G]
3802	G-Printec Inc.
4070	GES Japan Co., Ltd.
3765	GLBB JAPAN
4165	GLEAN CORPORATION
707	GLORY AZ System Co., LTD.
95	GLORY LTD.
4116	GLSolutions Inc.
3686	Godspeed. Co., Ltd
88	GRAPHTEC CORPORATION
1728	GREEN HOUSE CO., LTD.
3065	Gridmark Inc.
4209	GS Yuasa Infrastructure Systems Co., Ltd.
85	GS Yuasa International Ltd.
4063	GST Japan Co., Ltd.
	[H]
2837	Hagiwara Solutions co., Ltd.
2242	HAGIWARA TECHNO SOLUTIONS CO., LTD
3451	HAKARU PLUS CORPORATION
2791	Handreamnet, CO., LTD
2740	HARVEST CO., LTD.
6	Hewlett-Packard Japan, G.K.
198	HIRAKAWA HEWTECH CORP.
2347	Hitachi Channel Solutions, Corp.
2549	Hitachi IE System Co., Ltd.
4005	Hitachi Industrial Product, Ltd.
3273	Hitachi Industry & Control Solutions, Ltd.
1083	Hitachi Information & Communication Engineering, Ltd.
1596	Hitachi KE Systems, Ltd.
52	Hitachi Kokusai Electric Inc.
371	Hitachi Solutions Technology, Ltd.
3255	Hitachi Systems Field Services, LTD
2692	Hitachi Terminal Mechatronics, Corp
1850	Hitachi-LG Data Storage, Inc.
2	Hitachi, Ltd.
3079	HOCHIKI CORPORATION
606	Horizon Inc.
1518	Hosiden Corporation
4219	HOUSEI Inc.
3706	Housing Exterior Division LIXIL Co., Ltd.
4024	HOYA CORPORATION MD DIVISION
3671	HOYA DIGITAL SOLUTIONS COOPERATION
3638	HP Japan Inc.
2629	HYTEC INTER Co., Ltd.
	[I]
1326	I-O DATA DEVICE, INC.
4190	I-PEX Inc.
3269	iB Solution Co., Ltd.
23	IBM Japan, Ltd.
1329	ICOM Inc.
3438	iD corporation
3495	IDEC AUTO-ID SOLUTIONS CO., LTD.
3494	IDEC CORPORATION
3073	IDK Corporation
151	Ikegami Tsushinki Co., Ltd.
4019	Illumina K.K.
1191	IMAGENICS. CO., LTD.
3280	impactTV. INC
3493	INABA DENKI SANGYO CO., LTD.
808	iND Co., Ltd.
1429	Infinico Corporation
3768	INNOTECK CORPORATION
338	Intel K.K.
3775	Interface Corporation
3923	IoT Systems Co., Ltd.
826	IRIICHI TECHNOLOGIES INC.
946	ISA Co., Ltd.
1864	ISHIIHYOKI CO., LTD.
3942	ITC Co., Ltd.
2978	ITUS Japan Co., Ltd
14	IWATSU ELECTRIC CO., LTD.
	[J]
4137	J-Mobile Corporation
375	Janome Sewing Machine Co., Ltd.
262	Japan Aviation Electronics Industry, Limited
436	JAPAN CASH MACHINE CO., LTD.
874	Japan Electronics Ind., Inc.
96	Japan Radio Co., Ltd.
1836	Japan Telegartner Limited
460	JB Advanced Technology Corporation
3980	JOLED Inc.
30	JVC KENWOOD Corporation
3751	JVC KENWOOD Public & Industrial Systems Corporation
	[K]
2381	KABUTOYAMA WORKS CO., LTD
202	KAGA ELECTRONICS CO., LTD.
4146	KAMETSU CORP.
3849	KANAI ELECTRONIC APPLIANCE Co., Ltd.
1488	Kanematsu Electronics Ltd.
1609	Kawamura Electric Inc.
841	KDDI Corporation
1339	KEYENCE CORPORATION
1651	Keysight Technologies Japan K.K.
3256	KING TSUSHIN KOGYO CO.,LTD
865	KINGJIM CO., LTD.
3804	Kioxia Corporation
539	Kobayashi Create Co., Ltd.
160	Kodak Alaris Japan Corporation
1699	KOGA ELECTRONICS CO.
1067	KOITO ELECTRIC INDUSTRIES, LTD.
888	KOKUYO Co., Ltd.
908	KONICA MINOLTA JAPAN, INC.
172	KONICA MINOLTA, INC.
2506	KOSHIN DENKI KOGYO CO., LTD.
3762	Kpnetworks Ltd.
2265	KUBOTEK CORPORATION
2537	Kumahira Co., Ltd.
1390	KUZUMI Electronics, Inc.
209	KYOCERA Document Solutions Inc.
2394	KYOKKO SEIKO CO., LTD.
2138	KYOWA TECHNOLOGIES CO., LTD
4232	KYUSHU TEN LIMITED
	[L]
136	LAUREL BANK MACHINES CO., LTD.
2573	Laurel Intelligent Systems Co., Ltd.
3611	Lenovo Enterprise Solutions LLC
2420	Lenovo Japan LLC
3004	LET's corporation
3797	LINE Corporation
4077	LIVING ROBOT INC.
3266	Logitec INA Solutions Co., Ltd.
3690	LVHM WATCH & JEWERY JAPAN K.K.
	[M]
3959	MAMORIO, Inc.
3594	MASPRO DENKOH CORP.
3983	Matsumura Engineering Co., Ltd.
1118	MAX CO., LTD.
210	Maxell, Ltd.
2955	MC SECURITY Co., Ltd.
116	MEIDENSHA CORPORATION
2360	Miharu Communications Inc.
311	MIMAKI ENGINEERING CO., LTD.
344	MintWave Co., Ltd.
4129	MIS Corporation
1932	MITACHI CO., LTD.
8	MITSUBISHI ELECTRIC CORPORATION
594	MITSUBISHI Electric Engineering Co., Ltd.
1646	Mitsubishi Electric Information Network Corporation
2044	MITSUBISHI ELECTRIC SYSTEM & SERVICE CO., LTD.
3050	Mitsubishi Paper Mills Limited
214	Mitsui E&S Systems Research Inc.
3789	Mitsui Knowledge Industry Co., Ltd.
584	MITSUMI ELECTRIC CO., LTD.
282	MIYAKAWA ELECTRIC WORKS LTD.
4017	MOBILE COMMERCE SOLUTION Inc.
3258	mofiria Corporation
33	MURATA MACHINERY, LTD.
123	Murata Manufacturing Co., Ltd.
204	MUTOH INDUSTRIES, LTD.
	[N]
82	NAGANO JAPAN RADIO CO., LTD.
2505	NAGATSUKA
716	NAGOYA ELECTRIC WORKS CO., LTD.
3290	NAITO DENSEI MACHIDA MFG.CO.,LTD.
146	NAKAYO, INC.
3546	NANABOSHI ELECTRIC MFG. CO., LTD.
126	NCR Japan, Ltd.
2196	NCR Services Japan, Ltd
3870	NEC Communication Systems, Ltd.
1	NEC Corporation
3296	NEC Embedded Products, Ltd.
2729	NEC Magnus Communications
825	NEC Network and Sensor Systems, Ltd
1781	NEC Networks & System Integration Corporation
567	NEC Personal Computers, Ltd.
25	NEC Platforms, Ltd.
2644	NEC Solution Innovators, Ltd.
498	NEWTECH CO., LTD.
3886	NextGen Business Solutions, Inc.
4133	Nextorage Corporation
450	NHK SPRING CO., LTD.
3836	NICHIEI INTEC CO., LTD
1566	Nichigaku Co., Ltd.
2807	NIE Co., Ltd.
130	Nihon Unisys, Ltd.
356	NIKON CORPORATION
1671	NIKON VISION CO., LTD.
1363	NIKON-TRIMBLE CO., LTD.
119	Nintendo Co., Ltd.
621	NIPPON CONLUX CO., LTD.
844	Nippon Printer Eng. Inc.
279	NIPPON TELEGRAPH AND TELEPHONE CORPORATION (NTT)
1303	NIPPON TELEGRAPH AND TELEPHONE EAST CORPORATION
1278	NIPPON TELEGRAPH AND TELEPHONE WEST CORPORATION
3895	NMR Corporation
3511	Nokia Solutions and Networks Japan GG
3506	NORITAKE ITRON CORPORATION
394	NTT Advanced Technology Corporation
1275	NTT Communications Corporation
329	NTT DATA CORPORATION
457	NTT Electronics Corporation
4210	NTT PC Communications Incorporated
4107	NTT TechnoCross Corporation
3643	NTTDATA INTELLILLINK CORPORATION
	[O]
443	OA LABORATORY CO., LTD.
3237	ODS Corporation
4206	OHASHI SANGYO & CO., LTD.
197	Oi Electric Co., Ltd.
9	Oki Electric Industry Co., Ltd.
307	OKI Nextech Co., Ltd.
4131	OM Digital Solutions Corporation
56	OMRON Corporation
2857	OMRON HEALTHCARE CO., LTD.
3939	OMRON SOCIAL SOLUTIONS CO., LTD.
3663	Onkyo Home Entertainment Corporation
1812	OPTOELECTRONICS Co., Ltd.
223	Oracle Information Systems (Japan) G.K.
	[P]
4032	P3, Inc.
15	Panasonic Corporation
4022	Panasonic i-PRO Sensing Solutions Co., Ltd.
1780	Panasonic Life Solutions Networks Co., Ltd.
3790	Panasonic Mobile Communications Co., Ltd.
17	Panasonic System Solutions Japan Co., Ltd.
2234	PENTEL Co., Ltd.
144	PFU Limited
138	PHC Corporation
3104	PicoCELA Inc.
3977	PiNON Corp.
11	PIONEER ELECTRONIC CORPORATION
1448	Pixela Corporation
1364	PLANEX COMMUNICATIONS, Inc.
3628	Plat' Home Co., Ltd.
545	PLUS Corporation
2661	Primagest, Inc.
4172	PRIMETECH ENGINEERING CORP.
2041	Princeton Ltd.
3840	Project Ryukyu Co., Ltd
	[Q]
4029	QD Laser, Inc.
3471	QUADRAC Co., Ltd.
2651	Qualica Inc.
2203	QUIXUN PRODUCTS CO., LTD.
	[R]
763	RATOC Systems, Inc.
4213	Rhino Products Co .,Ltd.
4231	Richemont Japan Ltd.
16	Ricoh Co., Ltd.
690	RICOH IMAGING COMPANY, LTD.
38	RICOH INDUSTRY CO., LTD.
3692	RION CO., LTD.
175	RISO KAGAKU CORPORATION
59	ROLAND DG CORPORATION
1708	Routrek Networks, Inc.
3716	Rubrik Japan KK
3573	RYOWA ELECTRONICS CO., LTD.
	[S]
3995	SAKAKI CORPORATION

351 SANEI ELECTRIC INC.
3909 Sangikyo Corporation
83 SANKEN ELECTRIC CO., LTD.
2881 SANWA SUPPLY INC.
920 SANYO DENKI CO., LTD.
4088 SANYO Electric Co., Ltd.
19 SANYO Techno Solutions Tottori CO., Ltd.
355 SATO CORPORATION
3799 SATSUKI CO., LTD.
127 SAXA, Inc.
4110 SCALA K.K.
451 SCREEN Graphic Solutions Co., Ltd.
3346 Seedsware Corporation
55 SEIKO EPSON CORPORATION
50 Seiko Instruments Inc.
3484 SEIKO Solutions Inc.
3602 SEITEC CO., LTD.
777 SEIWA ELECTRIC MFG CO., LTD.
514 SEKONIC CORPORATION
13 Sharp Corporation
1394 Sharp NEC Display Solutions, Ltd.
3167 Shin Shin Co., Ltd.
3710 Shin Shin Tech. Co. Ltd.
193 Shindengen Electric Manufacturing Co., Ltd.
73 SHINKO SEISAKUSHO CO., LTD.
3673 Shinsei Corporation
341 SHINSEI INDUSTRIES CO., LTD.
2868 SHOFU INC.
1922 SIGMA CORPORATION
434 silex technology, Inc.
153 SINFONIA TECHNOLOGY Co., LTD.
3854 SINKA Corporation
2093 Sknet Corporation Ltd.
3502 Smart Solution Technology, Inc.
795 SMK Corporation
3872 SNK CORPORATION
1489 SocioFuture, Ltd.
3247 SoftBank Corp.
3676 Soltec. Japan. Limited
3620 Sony Corporation
93 Sony Group Corporation
856 Sony Interactive Entertainment Inc.
5 SORD CORPORATION
269 SORITON SYSTEMS K.K.
521 SOSHIN ELECTRIC CO., LTD.
4015 Square K.K.
180 STAR MICRONICS CO., LTD.
2575 StoreNet Corp.
97 Sumitomo Electric Industries, Ltd.
165 Sumitomo Electric System Solutions Co., Ltd.
1197 Sumitomo Wiring Systems, Ltd.
1001 SUN CORPORATION
4222 SUN ELECTRONICS CO., LTD.
3764 SUN-WA TECHNOS CORPORATION
3785 SYNCLAYER INC.
637 SystemGear Co., Ltd.
3570 Systemk Corporation

[T]

163 TAIYO YUDEN CO., LTD.
283 TAKACOM CORPORATION
326 TAKAMISAWA CYBERNETICS CO., LTD.
2847 TAKASAGO, ltd
1973 TAMURA CORPORATION
206 TATSUNO CORPORATION
39 TDK CORPORATION
3137 TDK Corporation
75 TEAC CORPORATION
3727 Technicolor Japan K.K.
3717 TECHNO BROAD, INC.
2231 Technology Link Corporation
174 TERAOKA SEIKO CO., LTD.
830 THE FURUKAWA ELECTRIC CO., LTD.
3516 TKR CORPORATION
3952 Tobila Systems Inc.
179 TOEI ELECTRONICS CO., LTD.
1399 TOKYO ELECTRON DEVICE NAGASAKI LIMITED
2490 TOMY Company, Ltd.
2867 TOPPAN FORMS CO., LTD.
2047 Toppan Printing Co., Ltd.
1669 Topre Corporation
244 TOSHIBA DIGITAL SOLUTIONS CORPORATION
3825 Toshiba Electronic Device & Storage Corporation
3459 Toshiba Global Commerce Solutions Holdings Corporation
37 Toshiba Infrastructure Systems & Solutions Corporation
1939 TOSHIBA LIFESTYLE PRODUCTS & SERVICES CORPORATION
3403 TOSHIBA LIGHTING & TECHNOLOGY CORPORATION
48 TOSHIBA TEC CORPORATION
797 Touch Panel Systems K.K.
3018 Transaction Media Networks Inc.
2269 Transtron Inc.
2309 Trend Micro Incorporated

[U]

907 UCHIDA YOKO CO., LTD.
4076 UCOS Co., Ltd.
582 UMEZAWA TECHNICAL LABORATORY CO., LTD.
2045 UNIADEX, Ltd.
3144 Unitech Japan co., Ltd.
2087 UNITEX Corporation
3633 UPS Solutions Co., Ltd.

[V]

3426 V-net AAEON Corporation Limited
3578 VAIO Corporation
3284 VALTEC CO., LTD.
2109 VarioSecure Inc.

[W]

3976 WA HOLDINGS Co., Ltd.
177 Wacom Co., Ltd.
3889 WATEX CO., LTD.
4089 Weber-Stephen Products Japan GK.

[X]

4023 Xacti Corporation

[Y]

22 YAMAHA CORPORATION
3287 YAMASHITA SYSTEMS Corp.
2931 YDK CO., LTD.
2366 YEC, CO., LTD.
12 YUTAKA ELECTRONIC MFG. CO., LTD.

[Z]

3394 ZOOM CORPORATION

<Overseas>

No. Company (Country or Region Name)

[A]

2353 A-DATA Technology Co., Ltd. (CHINESE TAIPEI)
4141 A.W.Chesteron Company (USA)
2548 A10 Networks, Inc. (USA)
3955 AAEON Technology Inc. (CHINESE TAIPEI)
3603 Aava Mobile Oy (FINLAND)
4040 AB Circle Limited (HONG KONG)
1170 AcBel Polytech Inc. (CHINESE TAIPEI)
3314 Accedian Networks Inc. (CANADA)
3894 Accelink Technologies Co., Ltd. (CHINA)
3945 Access Limited (U.K.)
379 ACCTON Technology Corp. (CHINESE TAIPEI)
215 Acer Incorporated (CHINESE TAIPEI)
4226 Acroname Inc. (USA)
4132 Acrox Technologies Co., Ltd. (CHINESE TAIPEI)
4060 Actions Microelectronics Co., Ltd. (CHINA)
2952 Advanced Card Systems Limited (HONG KONG)
1320 ADVANTECH CO., LTD. (CHINESE TAIPEI)
4093 AHA INC CO., LTD. (KOREA)
4204 Airspan Networks Inc. (USA)
3419 AISolution (KOREA)
3201 AJA Video Systems Inc. (USA)
3949 ALE International (FRANCE)
2383 Alpha Networks Inc. (CHINESE TAIPEI)
3504 Alvaria, Inc. (USA)
3972 Amazon Web Services, Inc. (USA)
1565 AMD (CANADA)
4042 Amino Communications Ltd. (U.K.)
2988 Amphenol Corporation - Amphenol AssembleTech Division (USA)
683 Amtran Technology Co., Ltd. (CHINESE TAIPEI)
3674 Apacer Technology Inc. (CHINESE TAIPEI)
400 APC by Schneider Electric (USA)
4039 Appcessori Corporation (USA)
2656 Applanix Corporation (CANADA)
482 Apple, Incorporated (USA)
3858 Applied Medical Resources Corporation (USA)
2431 Apricorn, Inc. (USA)
3027 Arista Networks, Inc. (USA)
3946 Arlo Technologies, Inc. (USA)
1627 ARRAY NETWORKS, INC. (USA)
3530 ARRIS (USA)
2084 ARRIS International PLC (USA)
1285 ASKEY COMPUTER CORP. (CHINESE TAIPEI)
4211 ASROCK Incorporation (CHINESE TAIPEI)
2208 Astec International Limited (HONG KONG)
3911 Astro HQ LLC (USA)
1011 ASUSTek Computer Inc. (CHINESE TAIPEI)
1149 Aten International Co., Ltd. (CHINESE TAIPEI)
3553 Atop Technologies, Inc. (CHINESE TAIPEI)
3124 ATP Electronics Taiwan Inc. (CHINESE TAIPEI)
3464 Atrust Computer Corp. (CHINESE TAIPEI)
3222 ATTO Technology, Inc. (USA)
4159 AU Optronics Corporation (CHINESE TAIPEI)
2097 Audiocodes LTD. (ISRAEL)
4136 Augury Systems Ltd. (ISRAEL)
687 AVAGO Technologies (USA)
3705 Avalue Technology Inc. (CHINESE TAIPEI)
2888 AVer Information Inc. (CHINESE TAIPEI)
3244 Avere Systems, Inc. (USA)
1933 AVerMedia Technologies Inc. (CHINESE TAIPEI)
574 Avision Inc. (CHINESE TAIPEI)

[B]

3615 b-plus technologies GmbH (GERMANY)
3453 Bad Elf, LLC (USA)
2995 Barco N.V. (BERGIUM)
2085 BARCO, INC. (USA)
4176 Baytec Limited (HONG KONG)
676 BenQ Corporation. (CHINESE TAIPEI)
3994 Biamp Systems, LLC (USA)
3982 Big Innovation Company Limited (CHINESE TAIPEI)
3833 BIWIN STORAGE TECHNOLOGY CO., LTD. (CHINA)
2964 BizLink Technology Inc. (USA)
4115 Bloomberg LP (USA)
4161 Bosch Sensortec GmbH (GERMANY)
1809 Broadcom Corporation (USA)
2766 Brocade Communications Systems LLC (USA)
4207 BT5 Technologies (USA)
4194 BTBL Co., Ltd. (KOREA)
3902 BULL SAS (FRANCE)

[C]

3085 CA Inc. (USA)
3755 Cadence Design Systems, Inc. (USA)
3985 CalDigit Inc. (USA)
3993 Cambricon Technologies Corporation Limited (CHINA)
2135 佳能電産香港有限公司 (HONG KONG)
3630 Canon Korea Inc. (KOREA)
3261 Canon Production Printing Netherlands B.V. (THE NETHERLANDS)
3957 Carl Zeiss AG (GERMANY)
3035 CCIC Southern Testing Co., Ltd. (CHINA)
3679 Celestica Technology Consultancy (Shanghai) Co., Ltd. (CHINA)
3028 Cell Technology Limited (HONG KONG)
2015 Check Point Software Technologies Ltd. (ISRAEL)
2974 Chelsio Communications, Inc. (USA)
4157 Chenchengxing Technology Shenzhen Co., Ltd. (CHINA)
1638 Cheng Uei Precision Industry Co., Ltd. (CHINESE TAIPEI)
636 Cherry Europe GmbH (GERMANY)
882 CHICONY ELECTRONICS CO., LTD. (CHINESE TAIPEI)
2846 Ciena (USA)
2163 Cisco Systems International BV (THE NETHERLANDS)
493 Cisco Systems, Inc. (USA)
3190 Citrix Systems, Inc. (USA)
3816 Clavister AB (SWEDEN)
702 CLEVO CO. (CHINESE TAIPEI)
989 Clientron Corp. (CHINESE TAIPEI)
3770 Cohesity, Inc. (USA)
297 Compal Electronics, Inc. (CHINESE TAIPEI)
2715 CONBUZZ Co., Ltd. (KOREA)
2240 Contela, Inc. (KOREA)
3908 Corero Network Security Inc. (USA)
779 Coretronic Corporation (CHINESE TAIPEI)
4174 Cornelis Networks, Inc. (USA)
3966 Corsair Memory Inc. (CHINESE TAIPEI)
3780 Cradlepoint, Inc. (USA)
3551 Crestron Electronics, Inc. (USA)
4054 CRU Inc. (USA)
4122 CS Corporation (KOREA)
2871 CTC Union Technologies Co., Ltd. (CHINESE TAIPEI)
3978 CTL (USA)
2499 Cyber Power Systems, Inc. (CHINESE TAIPEI)
3809 Cyviz AS (NORWAY)

[D]

448 D-Link Corporation (CHINESE TAIPEI)
2486 D&T Inc. (KOREA)
3693 Darfon Electronics Corp. (CHINESE TAIPEI)
2033 DASAN Network Solutions, Inc. (KOREA)
3251 DataDirect Networks, Inc. (USA)
131 Datalogic Srl (ITALY)
4109 Datecs Ltd. (BULGARIA)
527 Dell Inc. (USA)
2804 Delphi Display Systems, Inc. (USA)
568 DELTA ELECTRONICS, Inc. (CHINESE TAIPEI)
3045 Delta Electronics, Inc. (CHINESE TAIPEI)
4069 DERA Co., Ltd. (CHINA)
4182 Desktop Metal, Inc. (USA)
671 Digi International Inc. (USA)
3989 DIGIEVER Corporation (CHINESE TAIPEI)
3777 Digital Check Corporation (USA)
4198 Display and Life Co., Ltd. (KOREA)
1461 DIVA Laboratories, Ltd. (CHINESE TAIPEI)
3326 DMX, LLC. d/b/a Mood Media (USA)
4183 DongGuan Ramaxel Memory Technology Limited (CHINA)
3868 DupliCALL Co., Ltd. (CHINA)
339 DZS Inc. (USA)

[E]

3791 EDGECORE NETWORKS CORPORATION (CHINESE TAIPEI)
1482 Edimax Technology Co., Ltd. (CHINESE TAIPEI)
537 Electronics for Imaging, Inc. (USA)
877 Elitegroup Computer Systems Co., Ltd. (CHINESE TAIPEI)
4028 Emesent Pty Ltd (AUSTRALIA)
4000 Endace Limited (NEW ZEALAND)
3457 Ergotron, Inc. (USA)
3823 ESSENCORE LIMITED (HONG KONG)
1080 EtherWAN Systems Inc. (CHINESE TAIPEI)
3608 Eve Systems GmbH (GERMANY)
2732 EVOLIS (FRANCE)
2889 ExaGrid Systems, Inc. (USA)
1406 Extreme Networks, Inc. (USA)
3524 Extron Electronics (USA)
3936 eze System, Inc. (USA)

[F]

1440 F5 Networks, Inc. (USA)
3817 Fibar Group S.A. (POLAND)
1926 FIMI s.r.l. (ITALY)
3661 FireEye, Inc. (USA)
1925 FIRICH ENTERPRISES CO. LTD. (CHINESE TAIPEI)
4038 Fitogether, Inc. (KOREA)
3589 FLIR COMMERCIAL SYSTEMS, INC. (USA)
1977 Fortinet, Inc. (USA)
4175 Framework Computer Inc. (USA)
3739 FUJIFILM Visual Sonics, Inc. (CANADA)
1468 Fujitsu Technology Solutions GmbH (GERMANY)
4188 Fun Technology Innovation Inc. (CHINESE TAIPEI)

[G]

3352 Gechic Corporation (CHINESE TAIPEI)
3954 Genew Technologies Co., Ltd. (CHINA)
1559 GIGA-BYTE TECHNOLOGY CO., LTD. (CHINESE TAIPEI)
3890 Gigamon Inc. (USA)
3720 GLAAM Co., Ltd. (KOREA)
3443 Global Scanning UK Ltd. (U.K.)
2630 GlobTek, Inc. (USA)
2419 GOOD WAY TECHNOLOGY CO., LTD. (CHINESE TAIPEI)
3078 Google LLC (USA)
3824 Goomedi Laboratories, Ltd. (CHINESE TAIPEI)
3905 Gosuncn Technology Group Co., Ltd. (CHINA)
3920 Guangdong Chuntex Elite Electronic Technology Co., Ltd (CHINA)

[H]

4208 Hefei Huntkey Display Technology Co., Ltd. (CHINA)
3759 HFR, Inc. (KOREA)
3736 HGST Inc. (USA)
3059 HID Global Corporation (USA)
4126 Hisense Commercial Display Co., Ltd. (CHINA)
4127 Hisense Visual Technology Co., Ltd. (CHINA)
3372 Hitachi Vantara LLC (USA)
4195 HKC OVERSEAS LIMITED (CHINA)
1724 Hon Hai Precision Industry Co., Ltd. (CHINESE TAIPEI)
3385 Hon-Kwang Electric Co., Ltd. (CHINESE TAIPEI)
3235 Honeywell Safety and Productivity Solutions (SPS) (USA)
3837 Hong Kong Colorful Yugong Technology Limited (CHINA)
4001 Huaqin Telecom Technology Co., Ltd. (CHINA)
4008 Huawei Device Co., Ltd. (CHINA)
4220 Huawei Digital Power Technologies Co., Ltd. (CHINA)
1968 Huawei Technologies Co., Ltd. (CHINA)
3625 HUMAX Co., Ltd. (KOREA)
4125 HUMAX NETWORKS (KOREA)
3595 Hyve Solutions (USA)

[I]

560 Identiv, Inc. (USA)
1737 IEI Integration Corp. (CHINESE TAIPEI)
3670 IGEL Technology GmbH (GERMANY)
1272 IIYAMA CORPORTION (THE NETHERLANDS)
2368 Imaging Business Machines, LLC (USA)
2664 Infinera Corporation (USA)
2472 INFOBLOX (USA)
3421 Ingenico Inc. (USA)
3831 Ingrasys Technology Inc. (CHINESE TAIPEI)
4166 Inno-IT Co., Ltd. (KOREA)
4149 INNORS Co., Ltd. (KOREA)
4068 Innowireless Co., Ltd. (KOREA)
3519 Interface Masters Technologies, Inc. (USA)
378 Inventec Corporation (CHINESE TAIPEI)
4049 InVue Security Products, Inc. (USA)
4080 iodyne (USA)
2947 IPEVO Corp (CHINESE TAIPEI)

[J]

4047 Jabil Inc. (USA)
3779 JiranSecurity Co., Ltd. (KOREA)
4178 JMA Wireless Limited (IRELAND)

1164 Juniper Networks, Inc. (USA)

[K]

4193 K-NETZ Co., Ltd. (KOREA)
3754 Kaga(H.K.) Electronics Limited (HONG KONG)
4186 Kaijet Technology International Corporation (CHINESE TAIPEI)
4097 Kaonbroadband CO., LTD. (KOREA)
3683 Kaonmedia Co., LTD. (KOREA)
3339 Katron Technologies Inc. (CHINESE TAIPEI)
3325 Kent Displays, Inc. (USA)
2845 Kingston Digital, Inc. (USA)
3788 KISAN TELECOM Co., LTD. (KOREA)
3574 Konftel AB (SWEDEN)
4056 Kontron Canada Inc. (CANADA)

[L]

3924 Lanner Electronics Inc. (CHINESE TAIPEI)
4218 Lanto Electronic Ltd. (CHINA)
2152 Lantronix, Inc. (USA)
3454 LCFC (Hefei) Electronics Technology Co., Ltd. (CHINA)
740 LEADTEK RESEARCH INC. (CHINESE TAIPEI)
3500 Legrand AV (C2G A Brand of Legrand) (USA)
1342 LEICA CAMERA AG (GERMANY)
4205 LEWITT GmbH (AUSTRIA)
674 Lexmark International, Inc. (USA)
4105 LG Display (KOREA)
256 LG Electronics Inc. (KOREA)
3926 LINKFLOW Co., Ltd. (KOREA)
4095 Lionic Corporation (CHINESE TAIPEI)
495 Lite On Technology Corp. (CHINESE TAIPEI)
532 Logitech Inc. (USA)
4092 LSDTech, Inc. (KOREA)
3965 Luxshare Precision Industry Company Limited (CHINA)

[M]

1133 Magic Control Technology Corporation (CHINESE TAIPEI)
2105 Malvern Instruments Limited (U.K.)
1182 Marvell Semiconductor Inc. (USA)
4114 Matrixed Reality Technology Co., Ltd. (CHINA)
359 Matrox Electronic Systems (CANADA)
3639 Matterport, Inc. (USA)
1090 McAfee, LLC. (USA)
3930 McDowell Signal Processing, LLC (dba McDSP) (USA)
2863 Mellanox Technologies, Ltd. (ISRAEL)
1573 Micro-Star International Co., Ltd. (CHINESE TAIPEI)
3921 Microchip (ISRAEL)
3102 Micron Technology, Inc. (USA)
1639 Microsemi (ISRAEL)
768 MICROSOFT CORPORATION (USA)
3632 Milestone Systems A/S (DENMARK)
4154 Mionix AB (SWEDEN)
1433 MITAC COMPUTING TECHNOLOGY CORPORATION (CHINESE TAIPEI)
1896 MitraStar Technology Corporation (CHINESE TAIPEI)
4229 MJLINK Co., Ltd. (KOREA)
4230 Montblanc-Simplo GmbH (GERMANY)
3529 Moxa Inc. (CHINESE TAIPEI)

[N]

3778 Nacon (HK) Ltd (HONG KONG)
4170 Nanjing Jiqidao Intelligent Technology Co., Ltd. (CHINA)
3002 NDS Surgical Imaging, LLC (USA)
1687 NetApp, Inc. (USA)
1418 NETGEAR, Inc. (USA)
1533 Netronix Inc. (CHINESE TAIPEI)
3712 Netronome Systems, Inc. (USA)
667 NetScout Systems, Inc. (USA)
1316 Network Engines Inc, DBA "NEI", & DBA "Unicom Engineering Inc." (USA)
3865 Network Integrity Systems, Inc. (USA)
2608 New H3C Technologies Co., Ltd. (CHINA)
1961 NEXCOM International Co., LTD. (CHINESE TAIPEI)
3798 NextDrive Co., LTD. (CHINESE TAIPEI)
4199 Nix Sensor Ltd. (CANADA)
3640 Nokia of America Corporation (USA)
308 Nokia-Global Product Compliance Laboratory (USA)
3997 Nozomi Networks Inc. (USA)
3139 NT-ware Systemprogrammierung GmbH (GERMANY)
3336 Nutanix, Inc. (USA)
4185 NUWA ROBOTICS (HK) LTD (CHINESE TAIPEI)
1423 NVIDIA CORPORATION (USA)

[O]

4225 Octane Biotech Inc. -A Lonza Company (CANADA)
3827 One Stop Systems (USA)
3813 OnLogic Inc. DBA Logic Supply (USA)
4091 Onward Security Corp. (CHINESE TAIPEI)
3550 Opengear Inc. (USA)
241 Oracle America, Inc. (USA)
4135 Origin Wireless Taiwan Corp. (CHINESE TAIPEI)
3916 ORION Co., LTD (KOREA)
3062 Orion Technology Co., Ltd. (KOREA)
577 Overland Storage Inc. (USA)
3657 OXTI PTE LTD (SINGAPORE)

[P]

3904 PAKERS CO., LTD (KOREA)
3441 Palo Alto Networks Inc. (USA)
3434 Panasas, Inc. (USA)
2372 Panduit Corp. (USA)
4156 PARTECH INC (USA)
1808 PARTNER TECH CORP. (CHINESE TAIPEI)
3974 PAX Computer Technology (Shenzhen) Co., Ltd. (CHINA)
3360 PC WORTH INT'L CO., LTD. (CHINESE TAIPEI)
2869 PEGATRON CORPORATION (CHINESE TAIPEI)
3996 Pensando Systems, Inc. (USA)
3851 PERVASIVE DISPLAYS INC. (CHINESE TAIPEI)
2614 Philips & Lite-On Digital Solutions Corp. (CHINESE TAIPEI)
4189 Phison Electronics Corporation (CHINESE TAIPEI)
2181 PIOLINK, Inc. (KOREA)
3925 Pismo Labs Technology Limited (HONG KONG)
4025 Pittasoft Co., Ltd. (KOREA)
2524 Plantronics Inc. (USA)
578 Plantronics Limited (U.K.)
4180 Pliops Inc. (ISRAEL)
4147 PlusTV (KOREA)
3642 PNY TECHNOLOGIES Asia Pacific Limited (CHINESE TAIPEI)
3146 Power Quotient International Co., Ltd. (CHINESE TAIPEI)
2062 POWERCOM CO., LTD. (CHINESE TAIPEI)
3374 Pride Tech Corporation (CHINESE TAIPEI)
851 Primax Electronics Ltd. (CHINESE TAIPEI)
1910 PROMISE TECHNOLOGY, INC. (CHINESE TAIPEI)
3726 PSi Laser GmbH (GERMANY)
3658 Pulse Secure, LLC (USA)
3818 Pure Storage Inc. (USA)

[Q]

4011 Qbic Technology Co., Ltd. (CHINESE TAIPEI)
2841 Qisda Corporation (CHINESE TAIPEI)
3162 QNAP Systems, Inc. (CHINESE TAIPEI)
2261 Qualys Inc. (USA)
3623 Quanta Cloud Technology Inc. (CHINESE TAIPEI)
726 QUANTA COMPUTER INC. (CHINESE TAIPEI)
1012 Quantum Corporation (USA)
3842 Qucell Networks Co., Ltd. (KOREA)
4163 Qumulo Inc. (USA)

[R]

2407 Radware Ltd. (ISRAEL)
3371 Rakuten Kobo Inc. (CANADA)
4118 Ramaxel Technology (Shenzhen) Co., Ltd (CHINA)
1895 Raritan International B.V. Taiwan Branch (CHINESE TAIPEI)
3888 Rein Medical GmbH (GERMANY)
3947 REMOTEC TECHNOLOGY LTD. (HONG KONG)
3931 RetailNext, Inc. (USA)
3437 rf IDEAS, Inc. (USA)
1558 Ribbon Communications Inc. (USA)
2628 Ribbon Communications Operating Company, Inc. (USA)
2377 Rimage Corporation (USA)
2529 Riverbed Technology (USA)
3076 Robert Bosch Taiwan Co., Ltd. (CHINESE TAIPEI)
3389 RSUPPORT CO., LTD. (KOREA)
2480 Ruckus Wireless, Inc. (USA)
4062 Ruijie Networks Co., Ltd. (CHINA)

[S]

4075 SambaNova Systems, Inc. (USA)
2750 SAMPO Corporation Ltd (CHINESE TAIPEI)
271 SAMSUNG ELECTRONICS Co., Ltd. (KOREA)
3627 Sanmina Corp (USA)
1416 Seagate Cloud Systems, Inc. (USA)
3046 Seagate Technology (USA)
2552 SEH Computertechnik GmbH (GERMANY)
3239 SendTek Corporation (CHINESE TAIPEI)
3986 Sequent AG (SWITZERLAND)
481 SerComm Corporation (CHINESE TAIPEI)
4059 SGM, Co., Ltd. (KOREA)
4140 SHANGHAI CHINGMU VISION TECHNOLOGY CO., LTD (CHINA)
3999 Shenzhen Horion Intelligent Technology CO., LTD (CHINA)
4079 Shenzhen Longsys Electronics Co., Ltd. (CHINA)
4026 Shenzhen NearbyExpress Technology Development Company Limited (CHINA)
4200 Shenzhen Unionmemory Information System Limited (CHINA)
4196 Shopify Inc. (CANADA)
3618 Shuttle Inc. (CHINESE TAIPEI)
2306 Silicom Ltd. (ISRAEL)
2535 Silver Peak Systems, Inc. (USA)
3131 SK hynix Inc. (KOREA)
2276 SMART Embedded Computing, Inc. (USA)
1960 SMART Modular Technologies, Inc. (USA)
2501 SMART Technologies ULC (CANADA)
3384 SMEC CO., LTD. (KOREA)
3631 SoftBank Robotics Europe (FRANCE)
2597 Solace Corporation (CANADA)
3880 SolarEdge Technologies Ltd. (ISRAEL)
4050 SOLID STATE STORAGE TECHNOLOGY CORPORATION (CHINESE TAIPEI)
794 SOLID YEAR CO.,LTD. (CHINESE TAIPEI)
3158 SOLiD, Inc. (KOREA)
3773 SonicWall Inc. (USA)
4134 Sonnet Technologies, Inc. (USA)
3808 Sonos, Inc. (USA)
3249 Sophos Ltd. (U.K.)
3650 Spectra Logic Corporation (USA)
3752 ST Engineering iDirect, Inc. dba iDirect (USA)
3447 SteelSeries ApS (CHINESE TAIPEI)
4006 StorCentric, Inc. (USA)
1498 Stratus Technologies, Inc. (USA)
3243 Sunix Co., Ltd. (CHINESE TAIPEI)
2933 Sunrex Technology Corp (CHINESE TAIPEI)
4086 Sunwoda Electronic Co., Ltd. (CHINA)
1880 SUPER MICRO COMPUTER INC. (USA)
3792 Suzhou Lehui Display Co., Ltd. (CHINA)
3815 Synology Inc. (CHINESE TAIPEI)

[T]

3838 T.I.T. ENG Co., Ltd. (KOREA)
3271 TA Technology (Shanghai) Co., Ltd. (CHINA)
3175 Taiwan BOE Vision-electronic Technology Co., Ltd. (CHINESE TAIPEI)
4177 TAIWAN CONTEC CO., LTD. (CHINESE TAIPEI)
1078 Tandberg Data GmbH (GERMANY)
3962 Tatung Technology Inc. (CHINESE TAIPEI)
4203 Technologies Humanware (CANADA)
3901 Telestream, LLC (USA)
4215 Teradata Operations, Inc. (USA)
3782 Thales DIS CPL USA, Inc. (USA)
1524 Thales DIS France SAS (FRANCE)
3719 THINKWARE CORPORATION (KOREA)
3713 Tintri by DDN, Inc. (USA)
3626 Tobii AB (SWEDEN)
4071 Tobii Pro AB (SWEDEN)
1601 Top Victory Electronics Co., Ltd. (CHINESE TAIPEI)
3652 TP-Link Corporation Limited (CHINA)
4120 TQ-Systems GmbH (GERMANY)
3542 TransAct Technologies Incorporated (USA)
3695 Trenton Systems (USA)
4018 Trimble INC. (USA)
3781 Trustwave Holdings, Inc. (USA)
3761 Turtle Beach Europe, Ltd., Taiwan Branch (CHINESE TAIPEI)
3565 Twinhead International Corp. (CHINESE TAIPEI)

[U]

4216 Ubiquoss Inc. (KOREA)
4045 Ufi Space Co., Ltd. (CHINESE TAIPEI)
886 Universal Global Scientific Industrial Co., Ltd. (CHINESE TAIPEI)
3875 UPG Company LLC (USA)
4164 Utimaco, Inc. subsidiary of Utimaco GmbH (USA)

[V]

4160 VALTEC TECHNOLOGY CO., LTD. (CHINESE TAIPEI)
3990 ValueHD Corporation (CHINA)
3984 VC Inc. (KOREA)
4187 Vecima Networks Inc. (CANADA)
3988 Verico International Co., LTD. (CHINESE TAIPEI)
3668 Veritas Technologies LLC (USA)
4221 Verkada Inc. (USA)
3969 VERSA NETWORKS (USA)
585 Vertiv IT Systems, Inc. (USA)
2595 ViaScope Inc. (KOREA)
3613 ViewSonic International Corporation (CHINESE TAIPEI)
4228 ViGEM GmbH (GERMANY)
3194 Vigilent Corporation (USA)
4162 Vinpower Inc. (USA)
3439 Virtual Instruments Corporation (USA)
2443 VIVOTEK INC. (CHINESE TAIPEI)
3730 Vmware, Inc. (USA)
3291 Voyetra Turtle Beach, Inc. (USA)
3125 Vuzix Corporation (USA)

[W]

4007 Waltop International Corp. (CHINESE TAIPEI)
3829 Warwick Acoustics Ltd. (U.K.)
3852 WAWGD, Inc. d.b.a. Foresight Sports (USA)
3666 Weifang GoerTek Electronics Co., Ltd. (CHINA)
3763 Weihai Daewoo Electronics Co., Ltd. (CHINA)
2432 Western Digital Technologies, Inc. (USA)
4214 WHA YU INDUSTRIAL Co., Ltd. (CHINESE TAIPEI)
1718 WIBU-SYSTEMS Aktiengesellschaft (GERMANY)
2418 WIDE CORPORATION (KOREA)
3847 WILK ELEKTRONIK S.A. (POLAND)
2912 Wins Co., Ltd. (KOREA)
4124 WiSECURE Technologies (CHINESE TAIPEI)
1767 Wistron Corporation (CHINESE TAIPEI)
3423 Wiwynn Corporation (CHINESE TAIPEI)
4227 Workaround GmbH (GERMANY)

[X]

3359 XAC Automation Corporation (CHINESE TAIPEI)
2827 Xerox Corporation (USA)
4223 xFusion Digital Technologies Co., Limited (CHINA)
4171 Xiaomi Communications Co., Ltd. (CHINA)
3912 XILINX, INC. (USA)
3538 XYZprinting, Inc. (CHINESE TAIPEI)

[Y]

4099 Yangtze Memory Technologies Co., Ltd. (CHINA)
4191 Yellowbrick Data, Inc. (USA)

[Z]

1143 Zebra Technologies Corporation (USA)
1229 Zebra Technologies Corporation (USA)
4087 Zhongshan Hybroad Vision Trading Company Ltd (CHINA)
3729 ZPE Systems (USA)
3956 ZT GROUP INT'L, INC. (USA)
3354 ZTE Corporation (CHINA)
3646 ZUNIDATA SYSTEMS INC. (CHINESE TAIPEI)
2596 Zylux Acoustic Corporation (CHINESE TAIPEI)

Supporting Members

<Japanese>

No. Company Name

[A]

3740 AKITA Industrial Technology Center
3196 ANRITSU CUSTOMER SUPPORT CO., LTD.
4003 AXELL CORPORATION

[C]

1192 Chiba Industry Advancement Center Tokatsu Techno Plaza
1846 Chokuan Information and Industry Development Association
755 COSMOS CORPORATION

[D]

3807 DENSO EMC ENGINEERING SERVICE CORPORATION
348 DMG MORI B.U.G. CO., LTD.

[E]

300 e-OHTAMA, LTD.
997 E&C Engineering K.K.
1263 Ehime Institute of Industrial Technology
259 EMC Japan Corporation
1906 ETS-Lindgren Japan, Inc.

[F]

101 FOSTER ELECTRIC CO., LTD.
1115 FUJITSU GENERAL EMC LABORATORY LIMITED
3893 Fukushima medical device industry promotion agency
575 Fukushima Technology Centre

[G]

4041 Gifu Prefectural Industry Technology Center

[H]

423 HIROSHIMA-TECHNOPLAZA CORPORATION
3937 Hokkaido Research Organization, Industrial Research Institute

[I]

3234 Industrial Research Institute of Niigata Prefecture
397 Industrial Research Institute of Shizuoka Prefecture Hamamatsu Technical Support Center
742 Industrial Technology Center of OKAYAMA Pref.
1213 Industrial Technology Institute, Miyagi Prefectural Government
999 Intertek Japan K.K.
579 IPS Corporation
2227 ISHIKAWA Co., Ltd.
3649 Iwate Industrial Research Institute

[J]
3619 Japan Automobile Research Institute
792 JAPAN ELECTRICAL SAFETY & ENVIRONMENT TECHNOLOGY LABORATORIES
3891 Japan Gas Appliances Inspection Association
140 JEL Limited

[K]
1251 Kagawa Industry Support Foundation (NEXT KAGAWA)
689 Kanagawa Institute of Industrial Science and Technology
187 KITAGAWA INDUSTRIES CO., LTD.
3569 KYB Corporation
3304 Kyoritsu Electric Corporation
3934 KYOTO INSTITUTE OF TECHNOLOGY

[L]
1370 Labotech International Co., Ltd.

[M]
2973 M-System Co., Ltd.
1301 Minami-Shinsyu Iida Industry Center
2031 MIWA LOCK CO., LTD.
1438 Miyazaki Prefecture Industrial Technology Center

[N]
352 Nagano Prefectural General Industrial Technology Center Precision. Electronics & Aviation Technology Department
3592 NIPPON SEIKI CO., LTD.
3562 NISSEI ELECTRIC CO., LTD.
684 NOISE LABORATORY CO., LTD.
2689 Noritz Corporation

[O]
3568 OHTAMA CALIBRATION SERVICE Co., Ltd.
3862 Oita Industrial Research Institute
898 OKI ENGINEERING CO., LTD.
463 OLYMPUS CORPORATION
4055 Osaka Research Institute of Industrial Science and Technology

[P]
2024 Panasonic Smart Factory Solution Co., Ltd.
608 Panasonic System Networks Evaluation Technology Co., Ltd.

[R]
2285 Radio Engineering & Electronics Association
1398 RAKURYOU TECHNICA CO., LTD.
485 RIKEN ENVIRONMENTAL SYSTEM Co., Ltd
2759 Rohde & Schwarz Japan K.K.
1337 Roland Corporation

[S]
3446 Samoto & Associates, Ltd.
2906 SELA Corporation
2563 SGS Japan Inc.
3274 Shimane Insutitute Industrial Technology
1849 Sony Global Manufacturing & Operations Corporation

[T]
346 TDK-Lambda Corporation
3734 Techno Science Japan Co., Ltd.
4138 Techno Science Systems Co., Ltd.
996 Tokin EMC Engineering Co., Ltd.
1098 TOKYO METROPOLITAN INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE
943 Toshiba Carrier Engineering & Life Support Corp.
3283 Toyama Industrial Technology Research and Development Center
995 TOYO Corporation
3396 Toyota Industries Corporation
811 TUV Rheinland Japan Ltd.
240 TUV SUD Japan Ltd.

[U]
474 UL Japan, Inc

[W]
260 WAVE CORPORATION

[Y]
4073 Yamagata Research Institute Of Technology
150 YAZAKI CORPORATION

<Overseas>

No. Company (Country or Region Name)

[A]
3034 A Test Lab Techno Corp. (CHINESE TAIPEI)
4053 AA Electro Magnetic Test Laboratory Private Limited (INDIA)
4128 Advanced Compliance Laboratory, Inc. (USA)
966 Atlas Compliance & Engineering, Inc. (USA)
4112 Attestation of Global Compliance (Shenzhen) Co., Ltd. (CHINA)
1257 AUDIX Technology (Shanghai) Co., Ltd. (CHINA)
638 Audix Technology (Shenzhen) Co., Ltd. (CHINA)
2653 Audix Technology (WuJiang) Co., Ltd. (CHINA)
237 Audix Technology Corporation (CHINESE TAIPEI)

[B]
4036 Bay Area Compliance Laboratories (Chengdu) (CHINA)
981 Bay Area Compliance Laboratories Corp. (USA)
3929 Bay Area Compliance Laboratories Corp. (Kunshan) (CHINA)
3776 Bay Area Compliance Laboratories Corp. (Taiwan) (CHINESE TAIPEI)
4153 Bay Area Compliance Labs Corp. (Linkou Laboratory) (CHINESE TAIPEI)
3387 Bay Area Compliance Labs Corp., (ShenZhen) (CHINA)
4104 BEC Incorporated (USA)
3940 Beijing Boomwave Test Service Co., Ltd. (CHINA)
672 BTL Inc. (CHINESE TAIPEI)
2709 BTL Inc. (CHINA)
3859 BTL Inc. (CHINA)
4021 BUREAU VERITAS ADT (SHANGHAI) CORPORATION (CHINA)
818 Bureau Veritas Consumer Products Services (USA)
395 Bureau Veritas Consumer Products Services, (H.K.) Ltd., Taoyuan Branch (CHINESE TAIPEI)
2115 Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch (CHINA)
3772 BV 7Layers Communications Technology (Shenzhen) Co., Ltd. (CHINA)
4013 BV CPS ADT Korea Ltd. (KOREA)

[C]
1847 Central Research Technology Co. (CHINESE TAIPEI)
4067 Centre Testing International (Suzhou) Co., LTD. (CHINA)
3177 Centre Testing International Group Co., Ltd. (CHINA)
2216 Cerpass Technology Corporation (CHINESE TAIPEI)
2783 CETECOM GmbH (GERMANY)
3944 CETECOM, Inc. (USA)
3812 China Academy of Information and Communications Technology (CHINA)
555 Chomerics Test Services (USA)
213 CKC Laboratories, Inc. (USA)
530 Compatible Electronics, Inc. (USA)
1938 Compliance Certification Services (KunShan) Inc. (CHINA)
710 Compliance Certification Services Inc. (CHINESE TAIPEI)
3330 Core Compliance Testing Services, LLC (USA)
332 CSA Group bayern GmbH (GERMANY)
2981 CSA Group Testing & Certification Inc. (CANADA)
1208 CTK Co., Ltd. (KOREA)

[D]
270 D.L.S. Electronic Systems, Inc. (USA)
1153 DEKRA Testing and Certification Co., Ltd. (CHINESE TAIPEI)
4100 Dongguan Dongdian Testing Service Co., Ltd. (CHINA)
3207 DSTech Co., Ltd. (KOREA)
1722 DT&C Co., Ltd. (KOREA)

[E]
3561 EKTOS Testing & Reliability Services A/S (DENMARK)
1607 Electrical and Electronics Institute (EEI), Thailand (THAILAND)
922 ELECTRO MAGNETIC TEST, INC. (USA)
2870 ElectroMagnetic Investigations, LLC (USA)
564 Element Materials Technology Portland-Evergreen Inc. (USA)
657 Element Materials Technology Warwick Ltd. (U.K.)
785 EMC Technologies Pty Ltd. (AUSTRALIA)
1409 EMCCons DR. RASEK GmbH & Co. KG (GERMANY)
2210 EMITECH Angers (FRANCE)
2893 EMTEK (Shenzhen) Co., Ltd. (CHINA)
3270 EST Technology Co., Ltd. (CHINA)
3470 ESTECH Co., Ltd. (KOREA)
1474 ETL Inc. (KOREA)
1145 Eurofins E&E Hursley Ltd (U.K.)
757 Eurofins MET Laboratories, Inc. (USA)
1062 Eurofins York (U.K.)

[F]
3636 F Squared Engineering Corp dba F2 Labs (USA)
910 FORCE Technology (DENMARK)

[G]
2778 Global Certification Corp. (CHINESE TAIPEI)
708 Global EMC Standard Tech. Corp. (CHINESE TAIPEI)
4184 Green Mountain Electromagnetics, Inc. (USA)
3498 Guangdong Keyway Testing Technology Co., Ltd. (CHINA)
4201 Guangzhou GRG Metrology & Test Co., Ltd. (CHINA)
2092 Gumi University EMC Center (KOREA)

[H]
4130 Hangzhou T3T Technologies Co., Ltd. (CHINA)
3606 Hangzhou TDT Technologies Co., Ltd. (CHINA)
264 HCT Co., Ltd. (KOREA)
592 Hermon Laboratories Ltd. (ISRAEL)
1814 Hong An Technology CO., LTD. (CHINESE TAIPEI)
3070 Hong Fu Jin Precision Electrons (Yantai) Co., Ltd. (CHINA)
4217 Hubei Institute of Measurement and Testing Technology (CHINA)

[I]
821 I.T.L. (PRODUCT TESTING) LTD (ISRAEL)
4155 IBL-Lab GmbH (GERMANY)
3452 International Certification Corp. (CHINESE TAIPEI)
243 International Standards Laboratory Corp. (CHINESE TAIPEI)
1349 Interocean EMC Technology Corp. (CHINESE TAIPEI)
3898 Intertek ETL SEMKO Korea Ltd. (KOREA)
960 Intertek Testing Services Hong Kong Ltd. (HONG KONG)
3598 Intertek Testing Services Ltd., Shanghai (CHINA)
334 Intertek Testing Services NA Inc. (USA)
1253 Intertek Testing Services Taiwan Ltd. (CHINESE TAIPEI)

[J]
2746 Jiangsu Electronic Information Product Quality Supervision & Inspection Institute (CHINA)

[K]
1980 KCTL Inc. (KOREA)
3669 KES Co., Ltd. (KOREA)
3465 Keystone Compliance, LLC (USA)
4168 Kiwa Netherlands B.V. (THE NETHERLANDS)
2005 KOSTEC Co., Ltd. (KOREA)

[L]
3656 Lab-T, Inc. (KOREA)
4057 LabTest Certification Inc. (CANADA)
2186 LGAI Technological Center, S.A. (Applus+ Laboratories) (SPAIN)
2411 LTA Co., Ltd. (KOREA)

[M]
2959 MiCOM Labs Inc (USA)
3575 MRT Technology (Suzhou) Co., Ltd. (CHINA)

[N]
1211 National Technical Systems (USA)
642 Nemko Canada Inc. (CANADA)
2118 Nemko Korea Co., Ltd. (KOREA)
4009 Nemko S.p.A. (ITALY)
3220 Nemko Scandinavia AS (NORWAY)
720 Nemko USA Inc. (USA)
3928 NTREE Co., Ltd. (KOREA)

[O]
782 ONETECH Corp. (KOREA)

[P]
656 PCTEST Engineering Laboratory, Inc. (USA)
409 Professional Testing (EMI), Inc. (USA)

[Q]
3718 QAI Laboratories, Ltd. (CANADA)
1798 QualiTech, EMC Lab. (ISRAEL)

[R]
3987 Radiometrics Midwest Corporation (USA)
1908 RETLIF Testing Laboratories (USA)
4065 RN Electronics Limited (U.K.)

[S]
2793 SGS Germany GmbH (GERMANY)
2934 SGS Korea Co., Ltd. (KOREA)
3300 SGS North America (USA)
1600 SGS Taiwan Ltd. (CHINESE TAIPEI)
3061 SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. (CHINA)
1937 SGS-CSTC Standards Technical Services Co., Ltd. (CHINA)
3738 Shanghai Inspection and Testing Institute of Instruments and Automatic Systems (CHINA)
2621 Shanghai Institute of Measurement and Testing Technology EMC Lab. (CHINA)
3525 Shenzhen Academy of Metrology and Quality Inspection (CHINA)
3826 Shenzhen BALUN Technology Co., Ltd. (CHINA)
2257 Shenzhen FuLian FuGui Precision Industry Co., Ltd. (CHINA)
2218 Shenzhen Huatongwei International Inspection Co., Ltd. (CHINA)
3863 Shenzhen Huaxia Testing Technology Co., Ltd. (CHINA)
3884 Shenzhen Morlab Communications Technology Co., Ltd. (CHINA)
3641 Shenzhen TCT Testing Technology Co., Ltd. (CHINA)
4142 Shenzhen UnionTrust Quality and Technology Co., Ltd. (CHINA)
3071 SINGAPORE EPSON INDUSTRIAL PTE LTD (SINGAPORE)
4202 SIQ Ljubljana (SLOVENIA)
1411 SK Tech Co., Ltd. (KOREA)
842 Spectrum Research & Testing Laboratory Inc. (CHINESE TAIPEI)
466 Sporton International Inc. (CHINESE TAIPEI)
3096 Standard Bank Co., Ltd. (KOREA)

[T]
277 Taiwan Testing and Certification Center (CHINESE TAIPEI)
4014 Tarang labs- Product Qualification and Compliance Planet, Wipro Ltd. (INDIA)
658 Test Site Services (USA)
3379 The Compliance Management Group (CMG) (USA)
1328 The Hong Kong Standards and Testing Centre Ltd. (HONG KONG)
4224 The Nebraska Center for Excellence in Electronics (USA)
831 The Standards Institution of Israel (SII) (ISRAEL)
916 3C Test Ltd (U.K.)
3241 TPV Display Technology (Xiamen) Co., Ltd. (CHINA)
2697 TÜV Rheinland (Guangdong) Ltd. (CHINA)
4074 TÜV Rheinland (Shenzhen) Co., Ltd. (CHINA)
1097 TÜV Rheinland of North America (USA)
4020 TÜV Rheinland Sweden AB (SWEDEN)
3252 TÜV Rheinland Taiwan Ltd. (CHINESE TAIPEI)
129 TÜV SÜD America Inc. (USA)
2003 TÜV SÜD Canada (Ottawa) (CANADA)
2718 TÜV SÜD Canada Inc. (CANADA)
4158 TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch (CHINA)
433 TÜV SÜD Ltd. (U.K.)
542 TÜV SÜD PSB Pte. Ltd. (SINGAPORE)

[U]
4090 UCS Co., Ltd. (KOREA)
3148 UL International-Singapore Pte Ltd (SINGAPORE)
4066 UL Korea, Ltd. (KOREA)
596 UL LLC (USA)
3793 UL Verification Services (Guangzhou) Co., Ltd., Song Shan Lake Branch (CHINA)
376 UL Verification Services Inc. (USA)
1309 Ultratech Engineering Labs Inc. (CANADA)
3834 Underwriters Laboratories Taiwan Co., Ltd. (CHINESE TAIPEI)
4012 Unified Compliance Laboratory (USA)

[V]
4192 Vista Laboratories, Inc. (USA)

[W]
3581 Wendell Industrial Co., Ltd. (CHINESE TAIPEI)
3750 WH Technology Corp. (CHINESE TAIPEI)
2450 Worldwide Testing Services (Taiwan) Co., Ltd. (CHINESE TAIPEI)

[Z]
4143 Zhejiang Kezheng Electronic Information Product Testing Co., Ltd. (CHINA)

As of March 31, 2022

» Settlement of Accounts for FY 2021

(Statement of net assets)

From April 1, 2020 to March 31, 2021

(Unit: Japanese yen)

Item	Current Fiscal Year	Previous Fiscal Year	Increase or Decrease
I. Statement of general net assets			
1. Ordinary increase and decrease			
(1) Ordinary earnings			
① Admission fees received	(3,850,000)	(4,300,000)	(△ 450,000)
② Membership fees received	(246,200,000)	(244,775,000)	(1,425,000)
③ Earning on enterprise fees	(15,549,500)	(15,708,000)	(△ 158,500)
Site registration fees	14,239,500	14,928,000	△ 688,500
Seminar enrollment fees	1,310,000	780,000	530,000
④ Miscellaneous earnings	(738,029)	(2,138,063)	(△ 1,400,034)
Total ordinary earnings	266,337,529	266,921,063	△ 583,534
(2) Ordinary expenditure			
① Enterprise expenditure	(199,608,525)	(193,818,498)	(5,790,027)
Labor	63,483,487	63,641,778	△ 158,291
Enterprise overhead	51,319,847	45,210,127	6,109,720
Operating expenditure	1,132,428	271,500	860,928
Standards setting	7,575,174	6,892,307	682,867
Technical education and training	633,466	429,431	204,035
Market surveillance	24,743,809	27,444,604	△ 2,700,795
International relations operation	1,303,257	1,268,260	34,997
Public relations	12,718,097	12,026,851	691,246
Site registration expenditure	26,385,200	26,985,200	△ 600,000
Reserve funds including reserve fund for retirement allowances	10,313,760	9,648,440	665,320
② Administrative expenditure	(30,251,868)	(28,358,630)	(1,893,238)
Labor	12,298,490	12,435,185	△ 136,695
Housekeeping	15,375,438	13,512,085	1,863,353
Reserve funds including reserve fund for retirement allowances	2,577,940	2,411,360	166,580
Total ordinary expenditure	229,860,393	222,177,128	7,683,265
Current fiscal year ordinary increase and decrease amoun	36,477,136	44,743,935	△ 8,266,799
General net assets before tax	36,477,136	44,743,935	△ 8,266,799
Corporation tax, residential tax, and enterprise tax	70,000	70,000	0
Current fiscal year general net assets	36,407,136	44,673,935	△ 8,266,799
Balance of general net assets at the beginning of the term	445,765,745	401,091,810	44,673,935
Balance of general net assets at the end of the term	482,172,881	445,765,745	36,407,136
II. Balance of net assets at the end of the term	482,172,881	445,765,745	36,407,136

» VLAC (Voluntary EMC Laboratory Accreditation Center)

VLAC was established in April 1999 by VCCI Council as an independent organization providing laboratory accreditation VLAC accredits laboratories by inspecting whether they conform to international standards "ISO/IEC 17025". The scope of accreditation covers emissions from multimedia devices demanded by VCCI Council, as well as laboratories focusing on: EMC testing (electrical and electronic devices, electrical devices for medical use, on-board electrical equipment for cars, railways, ships, and elevators, etc.), performance testing of telecommunications terminal equipment, electromagnetic field exposure testing, performance testing of wired communication terminals, air-conducted noise testing, power consumption testing of home-use electronic equipment, and safety testing of medical equipment and others. Laboratories accredited by VLAC are recognized anywhere in the world because VLAC is a signatory organization of ILAC MRA. Such laboratories enjoy the privilege of fast registration with VCCI Council, free of charge simply by sending their certificate to the website.

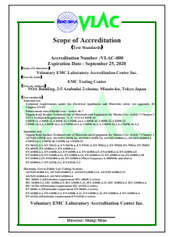
As of the end of FY 2021, 49 testing sites of 36 laboratories have been certified by VLAC.

For details, see the VLAC website https://www.vlac.co.jp/.

ILAC Combined MRA Mark

Certificate of Accreditation

Scope of Accreditation (Measurement Method)



Scope of Accreditation (Test Standards)

» VCCI Commissioned Testing Laboratories

TELEC (Telecom Engineering Center) - EMC Laboratory

URL : https://www.telec.or.jp/

Street address: 5-7-2 Yashio, Shinagawa-ku, Tokyo, Japan 140-0003

TELEC is a testing and accreditation body that performs Technical Regulations Conformity Certification and Construction Design Certification defined in the Radio Act, and technical standards conformity certification for terminal equipment as stipulated by the Telecommunications Business Law. It also tests (1) EMC for EU and FCC standards in the scope certified by the ISO/IEC 17025 laboratory, (2) radio, and (3) extremely low-power radio facilities as stipulated by the Radio Law. It also performs specified calibration of measuring instruments, testing for W-SUN certification, and SAR tests, tests WPT facilities and various facilities using high frequencies, and measures antenna characteristics and a variety of electromagnetic fields in open sites.

JQA (Japan Quality Assurance Organization) - Saito EMC Testing Laboratory

URL : https://www.jqa.jp/

Street address: 7-3-10 Saito-Asagi, Ibaraki-shi, Osaka-fu, Japan 567-0085

JQA is a fair and neutral third-party organization providing services such as: Inspection and registration of quality management systems such as ISO 9001 and environment management systems such as ISO 14001, electromagnetic environment testing, product safety certification, measurement device calibration, and certification of daily-life service robots. The Saito laboratory is the biggest of JQA's electromagnetic environment testing laboratories, and also deals with information, medical, and home appliances, and car- and ship-mounted equipment. JQA is also capable of testing radio equipment in Japan and overseas. JQA testing facilities are registered as qualified by VCCI and certified by VLAC and A2LA under ISO/IEC 17025.

KEC (Kansai Electronic Industry Development Center) - Testing Division

URL : https://www.kec.jp/

Street address: 3-2-2 Hikaridai, Seikacho, Sourakugun, Kyoto-fu, Japan 619-0237

This center is accredited as an ISO/IEC 17025 laboratory (by VLAC and JAB) and performs high-quality, reliable testing as iNARTE-certified EMC engineers assuredly support EMC testing for electrical and electronic devices for home, industries, medicine, cars and aircraft, and defense-related equipment, as well as evaluation testing for radio equipment and product safety testing for home appliances. In addition, KEC has JIS Q 17043 Proficiency Testing Scheme Provider Accreditation and offers highly-reliable EMC proficiency testing.

Intertek Japan - Kashima Testing Laboratory

URL : https://intertekjp.com/

Street address: 298-6 Sada, Kashima-shi, Ibaraki Prefecture, Japan 314-0027

Intertek Japan runs five testing sites in Japan, and is accredited by VLAC, NVLAP, and IECEE, among others. The laboratory provides EMC testing and accreditation for consumer, industry, medical, automobile, military, aviation, and telecommunications equipment, and specification and calibration services for various testing equipment. Intertek Japan also provides product safety testing, factory inspections, overseas safety certification, and various agent application and other services for telecommunications equipment. The Kashima laboratory, with its anechoic chamber and open site, has been engaged in EMC testing, mainly of consumer equipment, since 1984.

NOA Bldg.

Headquarters

VCCI Council
7F NOA Bldg., 2-3-5, Azabudai, Minato-ku,
Tokyo, Japan 106-0041
TEL.+81-3-5575-3138 FAX.+81-3-5575-3137

Participating organizations

Japan Electronics and Information Technology Industries Association (JEITA)

Japan Business Machine and Information System Industries Association (JBMIA)

Communications and Information network Association of Japan (CIAJ)

As of March 31, 2022